# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 24 1959





n tubes of 12 lozenges retail price 2/6d. (incl. P. Tax) you're

going

to be

asked

for

Savlon Antiseptic Lozenges made a big name for themselves when they came on the market last year... Containing 'Hibitane', the powerful new antiseptic, they provide your customers with the ideal remedy for the rapid relief of sore throats...

Pleasantly flavoured; easy to take; no unpleasant aftertaste...

Persuasive advertising in the national press will remind people to ask again for the lozenges that worked so well last year!

STOCK UP NOW WITH

## Savlon

ANTISEPTIC LOZENGES

Window and counter display material available on request



# Fotter's are still the best

A sure protection against many infections A remedy for COUGHS, COLDS & HAY FEVED Allow to dissolve slowly in the mouth, breathing through, the nose to allow the healing property to act directly upon the respiratory organs. **ADVERTISED** FORMULA OI Pini Sylv 0 41 OI Pini Pumil 0 41 OI Eucilyp 0 2 C Menthol 0 83 Thymol 0 2 Aqueous extractive from Althres 0 5 By POTTER & CLARKE LTD BARKING THEY'RE STRONG—BUT THEY'RE GOOD!

Wholesale 13/6 a doz. Retail 2/- a tin

Through Wholesalers only.

Sole Proprietors and Manufacturers

POTTER & CLARKE LIMITED · RIVER ROAD · BARKING · ESSEX · Telephone: RIPpleway 1105





### BDH introduces



### 'SECROSTERON'

**DIMETHISTERONE TABLETS** 

### the new orally active progestational agent the first all-British steroid discovery





### He simply writes 'Codis' now

Doctors have long been aware of the value of compound analgesic preparations for the relief of susceptible pains and discomforts.

Now, it is generally agreed, a further advance has taken place in the analgesic field. Codis provides all the virtues of Tab. Codein. Co. B.P. and more.

In Codis, agents have been added to solubilise

the aspirin base of Tab. Codein. Co. In water, Codis provides—with codeine and phenacetin calcium aspirin.

It is substantially neutral, and is therefore extremely well tolerated.

For these reasons the medical profession has widely endorsed Codis. You will find yourself dispensing it increasingly often.



### CODIS REGD.

Composition. Each Codis tablet contains: Acid Acetylsalicyl. B.P. 4 gr., Phenacet. B.P. 4 gr., Codein. Phosph. B.P. 0.125 gr., Calc. Carb. B.P. 1.2 gr., Acid. Cit.

### CODIS IS NOT ADVERTISED TO THE PUBLIC

DISPENSING PACK (Purchase Tax Free). 500 tablets in distinctive gold foils of 10 tablets each, 25/- per box.

PUBLIC SIZES. Pack of 20 tablets (in foil), 2/8 inc. P.T.; 8 tablets, 1/4 inc. P.T.

RECKITT & SONS LTD., HULL & LONDON, PHARMACEUTICAL DEPT., HULL

### SANATOGEN CHEMISTS' ASSISTANTS COMPETITION

# There's still time to win a trip to PARIS or £100





### CLOSING DATE

Closing date for all entries is first post, February 16, 1959

### 53 cash prizes in big, new Sanatogen contest!

Who can enter? Every assistant who normally sells Sanatogen in a chemist's shop, chemist's department, or at the chemist's counter of a department or general store in the U.K. or Northern Ireland.

### PRIZES

1st PRIZE.. £100 or a trip to Paris for two people\*— a wonderful chance to fly to Paris, for a week in a luxury hotel—with plenty of spending money as well!

2nd PRIZE . . £50 3rd PRIZE . . £25 \* Arranged to suit your convenience

+ 50 consolation prizes of £5. In addition, if Sanatogen is displayed effectively in the shop where one of the first three prize-winning assistants is employed, the owner or manager himself will receive a display bonus of £10.

### All you have to do:

- 1. If you don't already have an Entry Form, send *immediately* to Genatosan Ltd., Sanatogen Dept., Loughborough, Leics. (You can send in as many entries as you wish, as long as each entry is made on a separate entry form and signed.)
- **2.** On the Entry Form you'll find ten questions—the sort your customers are likely to ask you about Sanatogen. Each question has three alternative answers. Simply select the answer to each question which you consider most appropriate and which is most likely to sell Sanatogen.

### Remember, to win YOUR share of 53 cash prizes

you must have your entries in by first post, February 16, 1959

When Quality Counts.

. . Fine Chemicals from

### SIEGERIE

**SWITZERLAND** SIEGFRIED LTD. ZOFINGEN

### PHARMACEUTICAL PRODUCTS OF HIGHEST STANDARD

**Analgesics** 

**Anæsthetics** 

Disinfectants

**Hypnotics** 

**Sympathomimetics** 

Complete list available from sole U.K. agents

HUFFER & SMITH LTD., NEW ERA WORKS, PURLEY WAY,

Tel: Thornton Heath 4266-7

CROYDON, SURREY

Cables: Santoninic, Croydon

All Siegfried products meet Pharmacopæia-specifications. A large variety of modern manufacturing facilities is at the disposal of our customers for special (exclusive) production.

### IODISED SALTS

(for the Relief of Rheumatism, etc.)

Retail price 2/6 a Jar. Wholesale price 24/- doz. (discount to wholesalers 15%)

\* PRE-NATIONAL ADVERTISING OFFER:

Minimum Order 36 Jars charged as 30 Jars-Carriage Paid

(Value 15/- Extra Profit)

Main Distributors:

Messrs. I. ROWLAND JAMES LTD.
Wholesale Chemists, SWANSEA and CARDIFF Proprietors: H. P. JENKINS, PENYGROES, LLANELLY, CARMS



dozen (13). It pays to push this size.

C. & G. KEARSLEY LTD. 71 DARTMOUTH ROAD, LONDON, S.E.23

### The C.D. INDICATOR

(CONCEPTION DAYS)

### An Important Announcement

The C.D. Indicator is a small precision calculator designed and manufactured in Switzerland. It can be adjusted simply and immediately to show the fertile period in the current month according to each woman's individual menstrual characteristics.

As awareness spreads of the psychological and aesthetic advantages of the Ogino Knaus Rhythm method of conception control, more and more enquiries will be made from the Chemist-the public's trusted adviser in matters of this nature.

In order to assist Chemists in meeting this demand, and to ensure that a model for demonstration is readily available, the manufacturer's agents are prepared to issue a limited number of Indicators, together with the necessary literature and showcards, on a 3-months guaranteed sale basis, in return for display facilities.

Retail Price £4.4.0—List Price 63/- each exempt P.T.

For further details of this offer write to:

C.D. INDICATORS

109 New Bond Street, London, W.1

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Manufactured and packed in the Laboratories of

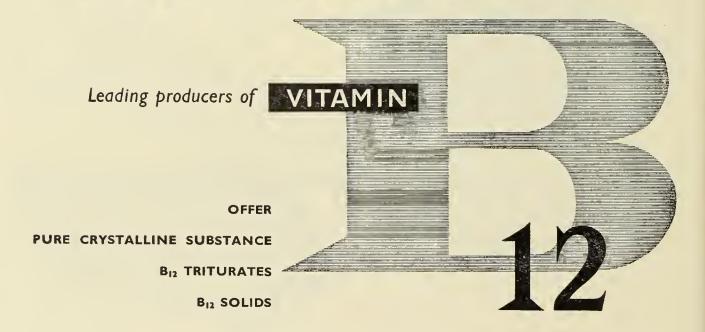
Sample box gladly sent upon request from

RICHARD DANIEL & SON, LTD.

Mansfield Rd., Derby. Tel. 40671 (10 lines) and at Grosvenor St., Ashton-u-Lyne. Tel. 5161 (9 lines)

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### GLAXO LABORATORIES



### FOR ALL PHARMACEUTICAL PURPOSES

Pure-stable-high biological activity

\* Produced by streptomyces griseus fermentation



BULK SALES DEPARTMENT, GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX. BYRon 3434 Subsidiary Companies or Agents in most countries



# "Please provide oxygen therapy set with Polymasks - MS 500 48 cu. ft. oxygen"

You might receive this prescription now that the new lightweight Single Unit Set for domiciliary oxygen therapy has been approved for use against E.C.10 orders. Developed by British Oxygen this equipment is robust, easy to operate, and is supplied with two disposable Polymask inhalers. This domiciliary oxygen therapy equipment is now an essential item in a chemist's stock.

For demonstration and full details of how to purchase or hire this equipment, please write to



BRITISH OXYGEN

British Oxygen Gases Limited
Medical Div., Great West Road, Brentford, Middx.



You cannot do better than specify COCKER

### P.C.O.C. (parachlor-orthocresol)

For many years we have been large-scale manufacturers of this widely-used intermediate for which we should be pleased to receive your enquiries and to submit samples at your request-

In addition we should like to draw your attention to the undermentioned selection from our production of fine chemicals.

D.D.T. (and certain formulations)
Terpineol B.P. and Perfumery
Chlorxylenol fractions
P.C.M.X.
Chlorinated Cyanuric Acids

Dichlorphenol
D.C.M.X.
Chloral Hydrate B.P.
Terpinolene

M.B.T.
M.B.T.S.
Benzylated-Cresylic-Acid
Chloral Anhydrous
Ortho Benzyl parachlorphenol

The finest of the fine from:

### COCKER CHEMICAL CO. LTD. (Dept. CD.)

OSWALDTWISTLE · LANCASHIRE

Telephone: Accrington 3621-3



### "SKYLON" POLYTHENE HOT WATER BOTTLES

A P.A.T.A. LINE

USTERN AVENUE, LONDON, W.3

illustration above shows the range of colours in which the new "SKYLON" polythene hot water bottles are being made. Light in weight and complete with high density Polythene cap and rubber seal.



"SKYLON COMFORT"

Packed in polythene bags with attractive "Sales-Appeal" design showing, in silhouette, a Teenager in shortie and alternatively, Father in his nightshirt and cap, they are, with their bright colours a sure selling line for young and old. Ask your Wholesaler to show you the bottles in their printed wrapper and stock up for the "worst-of-winter-to-come" period!



THE GREAT NATIONAL DIVIDEND STORES LIMITED

NATIONAL BUILDINGS . P.O. BOX 32 . STOCKPORT . CHESHIRE

(MAIL ORDER ONLY)

### UNIVERSAL LABORATORIES LTD. -

# Now DAXAIDS\* launch the most concentrated advertising campaign ever for an indigestion remedy!

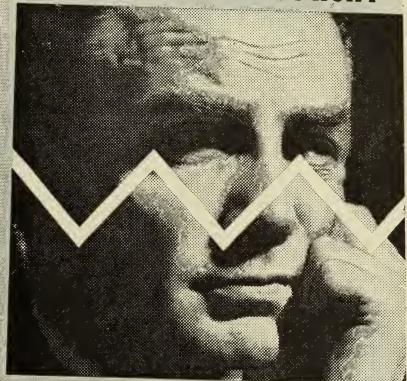
JUST think of it—every single weekday in January and February this advertisement in the DAILY EXPRESS or DAILY MIRROR! And every other day in the DAILY HERALD! All this, plus powerful advertising every week in the EMPIRE NEWS, is reaching almost three quarters of the adult population an average of 31 times.

TO GET YOUR FULL SHARE OF PROFIT FROM THIS TRE-MENDOUS CAMPAIGN—GIVE DAXAIDS A REALLY BIG SHOWING IN YOUR SHOP!



UNIVERSAL LABORATORIES LIMITED, 137-139 SANDGATE ROAD, FOLKESTONE, KENT

### End this secret hell!



# INDIGESTION? New Daxaid end 'acid comeback' misery

give quick longer-lasting relief

Some indigestion remedies work too violently. They may actually cause further pain! Because if your acid level is lowered too for facility comeby if

acid balance of the stomach.

DAXAIDS hold your stomach a at nature's normal level. They do produce 'acid comeback', and



Individually packed in polythene containers fitted with strong plastic clips, our new "Golden Girl" bathing caps are easy to display—requiring only hooks and a little wall space. And with their rich golden colour, easy-to-carry container, and extremely moderate price, they're equally easy to sell!

### OTHER SURE-SELLING SUBA-SEAL BATHING CAPS



CHIC 216d



SEA CHILD 2/6d.



SEA MAID 3/5d.



SEA DIVER 2/6d.

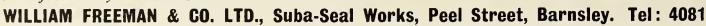


THE PACK WITH THE CLIP



Eye-arresting display pack helps you sell these lines.

PRODUCT



### UNIVERSAL LABORATORIES LTD.\_

Announce advertising for LEEVE

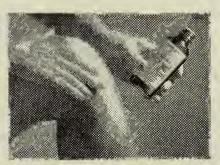
### RHEUMATIC PAIN

### LEEVE can give YOU real relief

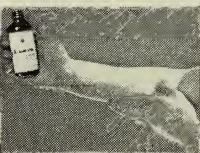
SALICYLATE THERAPY THROUGH THE SKIN

The importance of salicylates in the treatment of rheumatism has long been recognised. Many sufferers have obtained relief by taking them internally. Now at last research has discovered a salicylate which, if applied externally passes right through the skin over the affected area. It is called diethylamine salicylate and it is actually absorbed into the bloodstream. The vital importance of this discovery is that salicylate can now be applied where the pain is felt.









Here indeed is a momentous advance in the battle against rheumatic pain, and the real relief that it affords is now available for every sufferer in Leeve.

Leeve is a concentrated solution of diethylamine salicylate with the valuable addition of benzocaine, a powerful local pain-killer. The penetrating power of Leeve is so great that no rubbing is necessary. Just apply Leeve over the area of the pain and it sinks right in to attack the pain direct. You feel no burning or irritation, just a cooling sensation as Leeve brings you real relief. Leeve is at your chemist now. 5/11.

FOR RHEUMATIC AND MUSCULAR PAIN, FIBROSITIS, LUMBAGO AND SCIATICA

# Three times a week

Your customers are now seeing this powerful advertising for Leeve

### Three times a week in the Daily Mirror Three times a week in the Daily Express

Where Leeve is seen Leeve is selling

Display Leeve now to sell this profitable line

# COPERS

ANNOUNCE

OFF ALL THESE AEROSOLS!



### \*T.V. & Press Advertising TO BE MORE THAN DOUBLED!

Prepare NOW to meet big demand for Cooper's. Cash in on Cooper's leadership in popular-price Aerosols. Take full advantage of bonus offer ending April 30th.

Cooper research brings
you better aerosols—and

Stock up now!



### UNIVERSAL LABORATORIES LTD.

# BIG ADVERTISING... means big profits for you with

### DASCOTE

This is your chance to cash in on a nation-wide sales-building, promotional campaign, because DASCOTE advertising is reaching your customers now!

regularly on London, Midlands, Northern and Scotland Independent Television Stations each week.

**DASCOTE** advertisements are appearing three times a week in the Daily Express, three times a week in the Daily Mirror, and at weekends in the Sunday Empire News.

Check your stocks now—because people throughout the whole country are finding that DASCOTE fulfills a long-felt want in the analgesic field.



DASCOTE'S special tablet within a tablet construction has brought a real revolution to oral analgesia. The exclusive pink coating of Dihydroxy Aluminium Sodium Carbonate gives entirely new protection against the known side-effects of aspirin, the power core of aspirin plus phenacetin gives fast, prolonged relief from pain.

DASCOTE is available in two sizes. 16 tablets retailing at 2/11 and 28 tablets at 4/8.

Universal Laboratories Ltd Folkestone.

HERE'S HOW STERGENE SALES SUPPORT **WORKS FOR** YOU!

No matter where you are in Great Britain throughout 1959 you'll get the strongest advertising backing for Bubbly Stergene right to the point of purchase.

Heavily concentrated regional advertising on Television and in your local papers will appear for one month . . .



### IN THE SOUTHERN HALF OF ENGLAND - FEB 14th - MAR 13th

**\*** backed by large space all year-round advertising in colour and black and white in National Press and Women's Periodicals.

\*\* backed by specially designed point of purchase display material.

BE READY - Stock now!

Bubbly That's sales support by Stergene

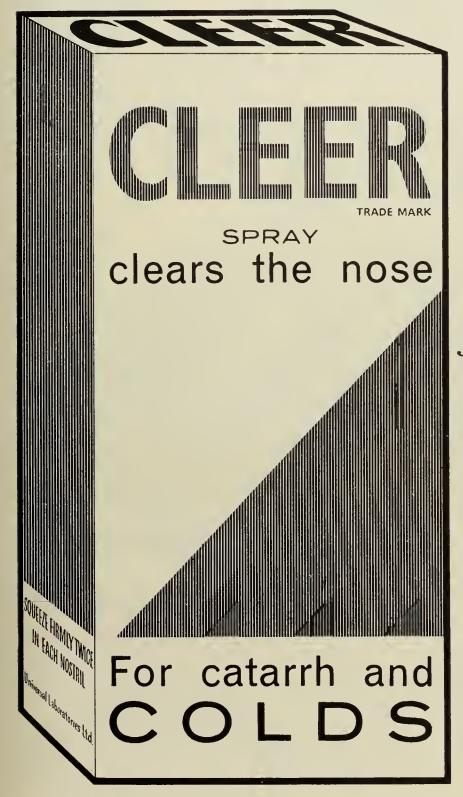
\* Watch out for news of big scale advertising in the Northern half of England. 2d. returnable on bottle.

Family size 2|- plus



STERGENE IS A PRODUCT OF DOMESTOS LIMITED, NEWCASTLE UPON TYNE

### UNIVERSAL LABORATORIES LTD.



and now—
National
advertising
starts
for Cleer

Sensationally successful in test markets, Cleer will bring you *new* customers for nasal sprays, bring you *extra* profit.

Retail Price 3/9d.



# Bronco SALES STILL RISING FAST in yet an

# in yet another record year

In 1958 more housewives bought more Bronco rolls and more Bronco interleaved tissues than in any other year.

BRITISH PATENT PERFORATED PAPER CO. LTD., LONDON, E.9 Tel: AMHerst 4777 (5 lines)



ADWEL ADDING MACHINES LTD., 20 PALL MALL, LONDON, S.W.I

### Profit from

# BONUS

### on I.C.I. Aerosol 5% off trade

PACKS	PRICES	
C 07	RETAIL EACH	TRADE DOZ.
5 OZ. (minimum 1 doz.)	5/6	46/2
I2 OZ. (minimum ½ doz.)	10/6	88/2
20 OZ. (any quantity)	17/6	147/-

Please note minimum quantities on 5 oz. and

12 oz. packs to qualify for Bonus Terms.

HERE comes a new I.C.I. Bonu Offer which applies to all orders received from January 1st to Apri 30th. Send your orders in early to qualify for 5% extra discount on thes trade prices.

Three powerful insecticides combine to mak I.C.I. Aerosol Insect Spray outstandingly effective. First, gamma BHC; second, pyrethrin; third piperonyl butoxide. Together they form an in sect spray that is both quick-acting and persistent—lethal to flying insect pests of all kinds yet harmless to human beings and animals.



this THE CHEMIST AND DRUGGIST January 24, 1959 21

# OFFER

Insect Spray

prices!

Leading women's magazines will carry advertisements for I.C.I. Aerosol

Insect Spray in summer issues.

Counter leaflets, showcards and crowners are available for your own display.



PHARMACEUTICALS DIVISION WILMSLOW CHESHIRE

Ph 898



### "No—there's a big difference, Mr. Baxter ...

... as you will remember, in protamine zinc insulin, the action of the insulin is modified by the presence of a foreign protein, protamine. In contrast, I.Z.S. contains no protein or peptide material other than the insulin itself. That is its great advantage over other insulins. You see, gentlemen, the action of I.Z.S. persists for the required period by appropriate adjustment of the particle size of the insulin zinc compound. It is because the effect of I.Z.S. is entirely independent of any modifying protein, that allergic reactions following its use are virtually unknown. Any other questions?"

I.Z.S. A.B. Vials of 10 c.c. 40 or 80 units per c.c.

I.Z.S. (Amorphous) A.B. Vials of 10 c.c. 40 or 80 units per c.c.

I.Z.S. (Crystalline) A.B. Vials of 10 c.c. 40 or 80 units per c.c.



ALLEN & HANBURYS LTD LONDON E2

ensees and Manufacturers

THE BRITISH DRUG HOUSES LTD LONDON N1

# MATTHEWS AND WILSON

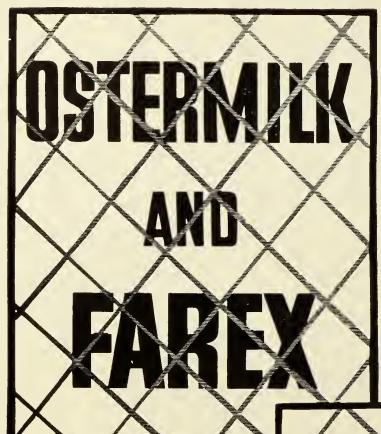
# For Your TABLETS

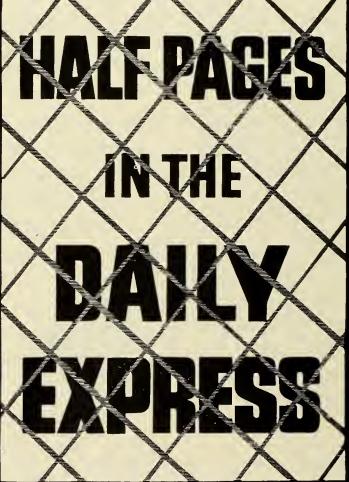
We have long experience in the
FORMULATION AND MANUFACTURE
of medicinal tablets of all types for
pharmaceutical organisations, hospital
authorities and proprietary houses,
both at home and for most countries
of the world—All standard B.P., B.P.C.,
N.F. Tablets are stocked for
prompt delivery

Customer's Materials Processed Home and Export Inquiries Invited

MATTHEWS & WILSON LTD.

Larkhall Works, Morrish Road, London, S.W.2. Tel:TULSE HILL 5881/2

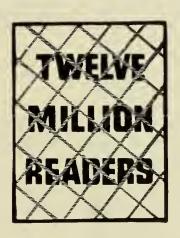


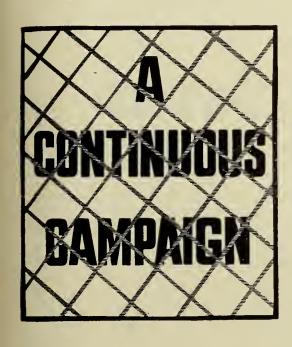


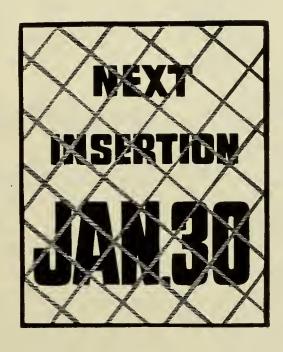
Once again Ostermilk and Farex are appearing in the Daily Express with another insertion in Glaxo Laboratories continual campaign in leading newspapers and women's magazines.

In the next dominant half-page advertisement in the series (which appears on January 30th), Glaxo Laboratories will re-emphasise the story of the scientific experience behind Ostermilk and Farex... the *unique* scientific experience which creates trust and confidence among parents the world over.

Profit from the confidence created by this persuasive advertising. Check your stocks of Ostermilk and Farex now. Make sure you have enough to maintain *all* your customers' custom.







### **OSTERMILK** and FAREX



ADVERTISEMENTS WILL BE SEEN BY OVER 12 MILLION READERS IN THE

DAILY EXPRESS



YOUR CUSTOMERS NEED

### **BEMAX** protection

**FROM** 

### winter infection

This special Bonus Offer is tied in with a big new advertising drive, featuring the benefits of BEMAX in the fight against winter ailments. The advertisements will appear in "RADIO TIMES" and the national and provincial press. Total circulation reached will be over 40,000,000 people. Get your order in early. Make sure of YOUR Bonus now!

### BONUS OFFER

### Available January 26th to February 7th

	PARCELS		QUANTITY TERMS	BONUS TERMS	PROFIT
BX.I	6 dozen × 1/9 size	99/-	96/-	88/-	38/-
BX.2	3 dozen × 3/- size	85/6	81/9	75/-	33/-
BX.3	$l\frac{1}{2}$ dozen $\times$ <b>5/6</b> size	78/9	75/-	68/9	30/3
BX.4	2 dozen × <b>3/-</b> size ½ dozen × <b>5/6</b> size	83/3	79/6	72/11	32/1
BX.5	I dozen x I/9 size I ½ dozen x 3/- size ½ dozen x 5/6 size	85/6	81/11	75/-	33/-

### WINDOW AND COUNTER DISPLAYS

for BEMAX must be made for at least 14 days. Display material readily available, and included in Bonus parcel.

ACTNOW! send your order immediately to:

SALES DEPT., VITAMINS LIMITED, UPPER MALL, LONDON, W.6

## vote of thanks from

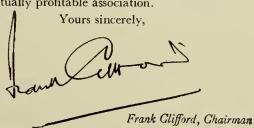
### PASCALL-KNIGH

I would like - now and publicly - to thank all those chemists who co-operated so wholeheartedly in the launch of our new health drink — Guavin.

The launching of a new product, however good, is always an anxious, if exciting, operation. Product tests, consumer acceptance tests, market research reports - these are helpful. But in the long run everything depends on you. Whether you like the product. Whether you stock it. Whether you recom-

I'm happy to say you did like Guavin. You did stock—and recommend—it. So much so, in fact, that Guavin is now established throughout the country and - as our consumer advertising takes effect - demand is rapidly increasing.

For our part we shall do our utmost to see that this demand continues to increase. Thank you again for your co-operation. I hope it will be the beginning of a long and mutually profitable association.



### TO FUTURE STOCKISTS

Guavin is pure fruit juice: a blend of the juices of sun-drenched guavas and luscious black

of sun-drenched guavas and luscious black grapes.
Guavin contains more natural goodness than any other fruit drink now available. It is uniquely rich in natural Vitamin C (richer by far than blackcurrant juice) and contains a high proportion of pure grape glucose. There is no added sweetening, colouring or flavour ing matter. The amber bottle protects the Vitamin C. The golden label sets the seal on its quality. its quality.

> RETAIL Bottle contains 12½ fl. ozs. min.

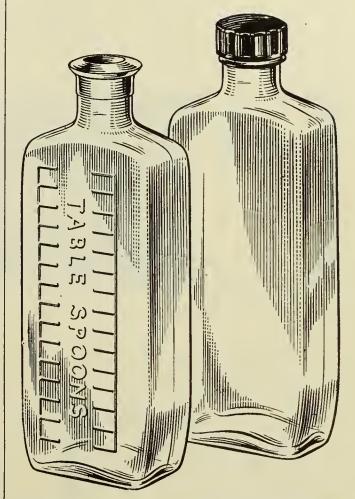


GILAN

Guavin is produced to the highest standards of purity by

PASCALL-KNIGHT LTD., CROYDON (Est. 1931) Tel. CROydon 3854

### The **Beatson** Medical



### Be sure to specify BEATSON

AVAILABILITY-THE BEATSON MEDICAL

Cork Mouth—Ungraduated. 1, 2, 3, 4, 6, 8, 10, 12, 16, 20 oz.
Graduated Teaspoons. 2, 3, 4 oz.
Graduated Tablespoons. 4, 6, 8, 10, 12, 16 oz.
Parts. 6 oz. in 6 parts.
8 oz. in 8 parts.
12 oz. in 12 parts.

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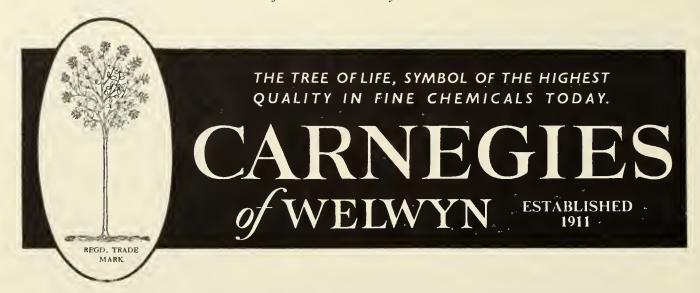
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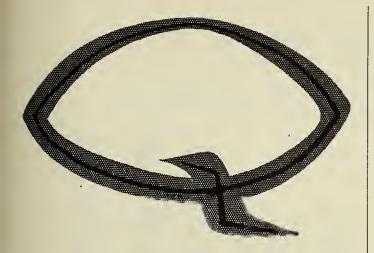
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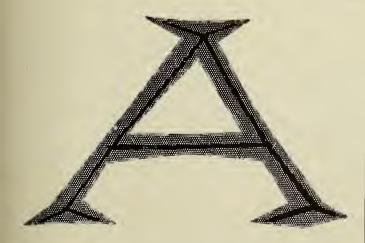
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ESTABLISHED 1859

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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

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January 24, 1959

No. 4118

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Volume 171

JANUARY 24, 1959

No. 4118

### **British Approved Names**

### SUPPLEMENTARY LIST ISSUED

THE following supplementary list of approved names has been issued by the British Pharmacopæia Commission:—

Approved Name	OTHER NAMES
Bephenium	Benzyldimethylphenoxy-
hydroxy-	ethylammonium 3 - hy -
napthoate	droxy-2-naphthoate.
	Alcopar.
Chlorbet-	Dichloro - N - (2:4 di-
amide	chlorobenzyl) - $N$ - (2 -
	hydroxyethyl)-acetamide.
	Mantomide; Pontalin.
Chlorprop-	N - p - Chlorobenzenesul-
amide	phonyl-N'-propylurea.
	Diabinese.
Dimethiso-	3 - Butyl - 1 (2 - dimethyl-
quin	aminoethoxy)isoquinoline.
	Quotane is the hydrochlor-
Dia!	ide.
Dithiazanine	3: 3' - Diethylthiadicarbo-
	cyanine.  Delvex and Telmid are the
	iodides.
Fluoxymes-	
terone	$9\alpha$ - Fluoro - $11\beta$ : $17\beta$ - dihydroxy - $17\alpha$ - methyl-
•••••	androst-4-en-3-one.
	$9\alpha$ - Fluoro - $11\beta$ - hy-
	droxy - 17 - methyltestos-
	terone.
	Ultandren.
Griseofulvin	7 - Chloro - 4:6 - dimeth-
	oxycoumaran - 3 - one - 2 - spiro - 1' - (2'-meth-
	2 - spiro - 1' - (2'-meth-
	oxy - 6' - methylcyclohex-
	2'-en-4'-one).
Methylpredni-	Grisovin. $11\beta:17\alpha:21$ - Trihydroxy -
solone	$6\alpha$ - methylpregna - 1:4 -
SOIONE	diene-3:20-dione.
	$6\alpha$ -Methylprednisolone.
	Medrol; Medrone.
Phenacemide	(Phenylacetyl)urea.
	Phenurone.
Stanolone	17β - Hydroxy - $5\alpha$ - an-
	drostan-3-one.
~	Anabolex.
Styramate	2 - Hydroxy - 2 - phenyl-
	ethyl carbamate.
Triffyamara	Sinaxar.
Trifluopera-	2 - Trifluoromethyl - 10 - [3' - (4" - methyl - 1" -
Zine	piperazinyl)propyl]pheno-
	this zine

### Purchase Tax COMBS AND CASES—LIABILITY

chloride.

Stelazine is the dihydro-

THE Customs and Excise draw the attention of traders to the fact that where combs are supplied with open-

ended eases, the comb and case are chargeable as one entity at the rate of 30 per cent, under Group 31 (b) of the Tax Schedule.

### **Medical Services Inquiry**

TWO-YEAR TASK FOR COMMITTEE

"TO review the provisions of medical services to the public, and their organisation, in the light of ten years' experience of the National Health Service, and to make recommendations," is the object of the Medical Services Review Committee under the chairmanship of Sir Arthur Porritt (Sergeant-Surgeon to the Queen). The review was sponsored by nine leading medical organisations in Britain and eight presidents or chairmen of those bodies were members of the committee. The remainder of the thirty-six members-they include only one woman—were nominated by the sponsoring bodies. According to Sir Arthur Porritt the committee hopes to complete its investigations and report in two years. He stated that the committee would try to ascertain what advantages and disadvantages had accrued to the patient, the doctor and the community since the Health Service began. Evidence would be requested from all organisations concerned with the ancillary medical services, a wide variety of lay organisations, and Sir Arthur Porritt extended "an open invitation to anybody, lay or medical, to bring up any point he wants to." Members of the committee are: Sir Harold Boldero, Dr. T. B. S. Diek, and Dr. C. F. Hawkins (Royal College of Physicians, London); Mr. D. F. E. Nash and Sir James Paterson Ross (Royal College of Surgeons of England); Professor A. M. Claye, Mr. E. Cope, Miss A. M. Dickins. and Mr. W. Hawksworth (Royal College of Obstetricians and Gynæcologists); Dr. T. Anderson, Dr. I. R. C. Batchelor, and Dr. A. Rae Gilchrist (Royal College of Physicians (Edinburgh)); Professor J. Bruce, Mr. R. G. Henderson, and Mr. J. A. Ross (Royal College of Surgeons (Edinburgh)); Dr. W. Ferguson Anderson, Mr. Arthur Jacobs, and Dr. T. Ferguson Rodger (Royal Faculty of Physicians and Surgeons (Glasgow)); Dr. H. D. Chalke and Professor R. C. Wolfinden (Society of Medical Officers of Health); Dr. J. Fry, Dr. I. D. Grant; don); Mr. D. F. E. Nash and Sir James

Dr. J. H. Hunt, and Dr. G. Swift (College of General Practitioners); Dr. J. T. Baldwin, Mr. W. S. Braidwood, Mr. R. Brearley, Dr. A. B. Davies, Dr. A. M. Maiden, Dr. I. Rannie, Dr. J. M. Rogan, Mr. T. Holmes Sellors, Sir Tudor Thomas, Dr. J. B. Tilley, Dr. F. G. Tomlins, and Dr. S. Wand (British Medical Association).

### **Suggestions to Chancellor**

NATIONAL CHAMBER'S PRE-BUDGET NOTE

THE National Chamber of Trade, as is its custom, has submitted to the Chancellor of the Exchequer a number of pre-Budget suggestions. The Chamber urges that, inter alia, the Chancellor should arrange for a gradual reduction of the rates of tax "over the whole field affected"; that the point of assessment for profits tax should be raised from £2,000 to £4,000 and that the deduction allowed for directors' remuncrations should be increased; that the point at which incomes become subject to surtax should be raised from £2,000 to at least £3,000; and that the present standard rate of income tax should be reduced to 8s. 6d, in the £. The Chamber also points out that it is party to the moves already made to

### SIGN OF A PHARMACIST



Above the facia of the Reading business of J. Powell & Son, Ltd. (see p. 88), is the carboy clock shown. The orange colour of the sign gives a hint of the coloured contents of the carboy it represents without increasing the difficulty of telling the time.

secure the same allowance for commercial and retail distributive premises as is allowed in respect of industrial buildings.

### How to Cut Costs

SUGGESTION BY A HOSPITAL COMMITTEE

SUGGESTION that the pharmacist should be responsible for the supply of all rubber and glass tubes, stoppers and bottles required by hospitals in the group has been made by Clwyd and Deeside Hospital Management Committee to its medical advisory committee. That was one of the proposals that the medical advisory committee is being asked to consider as a means of reducing expenditure. The Management Committee has adopted the report of a sub-committee it had appointed to examine the group's expenditure on drugs and Expenditure on those items dressings. in 1957–58 was £37,465 compared with £23,493 in 1950–51. The medical advisory committee is to be asked to consider whether expenditure can be reduced on certain items either by introducing effective substitutes or reducing consumption; that new drugs should not be purchased without the prior approval in writing of a consultant; and that the issue of crêpe bandages to outpatients should be dis-continued. The group pharmacist is also to report on the expenditure on antiseptics for general purposes in wards.

### **BRANCH EVENTS**

EAST METROPOLITAN

A Joint Meeting

A JOINT meeting of the Whipps Cross Medical Society and the East Metropolitan Branch of the Pharmaceutical Society was held at Whipps Cross Hospital, Leytonstone, London, on December 5, 1958. The meeting was well attended, and an amusing and informative address was given by Superintendent Salter (New Scotland Yard) on "The Scientific Detection of Crime."

#### MERSEYSIDE

### Women Pharmacists' Dinner

MRS. M. Dalgarno (president of the Merseyside branch of the National Association of Women Pharmacists) on December 10, 1958, welcomed seventy members and friends to the annual dinner. Dr. F. A. BARRIE, proposing the toast of the Association recalled the days of his training as a pharmacist prior to his medical studies, when Miss M. C. Dodd (president of the Association), who was also present, was one of his contemporaries. Mrs. R. Quintrell (employment secretary of the Association) responded to the toast. Mrs. Dalgarno introduced the guest speaker, Mrs. Eva Williams (deputy mayor of Bebington), who recalled some of the highlights of her mayoral year during 1957. As the first woman to hold the office she met the Queen and the Duke of Edinburgh when they visited the borough; she also met the Qucen Mother on two occasions. Mrs. D. H. Evans (treasurer) proposed the toast of the guests to which Mr. H. HUM-PHREYS JONES responded, Mrs. E. N. J.

Jones (social secretary and vice-president) was the toastmaster.

#### BRIDGEND AND DISTRICT

Standing up for Wales

An opportunity for explaining the objects and aims of the newly-formed Welsh Pharmacists' Association was taken by its president (MR. R. H. WIL-LIAMS, J.P.) when, as guest of honour, he replied to the toast of the Association at the Bridgend, Maesteg, Porthcawl and Pyle Branch of the Pharmaceutical Society on January 14. It had been formed, he said, because Welsh pharmacy was not as vocal as its numbers warranted. There was no member from South Wales on the Pharmaceutical Society's Council and the one from North Wales (Mr. G. H. Hughes) needed support. The organisation was non-political and therefore it sation was non-political and therefore it had nothing to do with Welsh Nationalists. The committee was to consist of eight members from the north and sixteen from the south. The number of members was 135 and he wanted to see that number grow rapidly. The Association's predecessor, the United Chemists of Wales, which did much good work for Welsh pharmacy and indeed for the whole of pharmacy, had to cease operations in 1939 at the out-break of war because of difficulty in holding meetings. Proposing the toast of the Association, Mr. J. RICHARDS (vice-chairman of the branch), recalled that in 1913 a South Wales Pharmacists' Association was formed in the same hotel in which they were dining that night. Those pharmacists banded together because they felt they could not tolerate the conditions of the 1911 National Health Insurance Act; that Association remained until the formation of the Retail Pharmacists' Union, the National Pharmaceutical Union. Mr. W. SUMNER (president of the branch) formally proposed the toast The Pharmaceutical Society.

### IRISH NEWS

THE NORTH

### **Associates' Section**

MONTHLY MEETING OF COMMITTEE

A MEETING of the committee of the Associates' Section of Ulster Chemists' Association was held in Belfast on January 12, Mr. H. M. Hamilton (vice-chairman) presiding. Mr. Hamilton welcomed Mr. H. W. McKeown on his first attendance as a committee member. A letter from the Association's

executive committee stated that in view of a questionnaire being sent out to the Association's members on a suggested Saturday half-holiday, and a proposal to abolish the late night (C. & D., January 17, p. 54), the Section's suggestion regarding a 6 p.m. closing would have to be reconsidered in the light of the views expressed by the members. It was agreed to write to the executive committee again, asking if the proposal for 6 p.m. closing could be included on the questionnaire. A query received from a member who wished to know if the Association could contact the income tax authorities to see if any provision could be made for a rebate in income tax in the case of locums carrying out duties in districts away from home where it was necessary for them to obtain lodgings, was discussed. It was agreed to write to the income tax authorities. to write to the income tax authorities. The following were approved for associateship: Pharmaceutical Chemist, Messrs. P. J. McBride, J. R. McCoubrey; Unqualified Assistant, Misses H. F. Lyle, E. Rocke, Messrs. T. S. Donnelly, G. J. Fitzgerald, H. O. E. Follis, D. G. McFarland, J. McGarrity, B. J. McGrath, H. T. Porter; Apprentice, Miss M. D. Lilley, Messrs. J. B. Miller, J. M. Spence.

THE REPUBLIC

### Pharmacy G.A.A. Club

ANNUAL MEETING AND DINNER

OFFICERS of the College of Pharmacy Gaelic Athletic Association Club elected at the recent annual meeting, held in Dublin, were Mr. P. Leydon (chairman), Mr. T. Curneen (vice-chairman), Mr. T. Lawlor (hon. secretary), and Mr. C. Conefrey (treasurer) The committee urer). Messrs. M. Shannon, H. Gaffney, S. Moran, T. Bree, J. Flynn and M. Moran, T. Bree, J. Flynn and M. Curley. Mr. Gerald Flynn was elec-Curley. ted team captain and Mr. Patrick O'Hara, vice-captain. Following the annual meeting the Club held its annual dinner at which Mr. Peter Leydon nual dinner at which Mr. Peter Leydon presided. Among founder-members present in addition to the chairman were Messrs. S. Fox, T. O'Keefe, T. Bree, P. Rosney and M. Hanna. Proposing the toast to "The Pharmaceutical Society of Ireland," Mr. Fox said he was glad to see that the students were now taking a real interest in their own club. Mr. Coneterest in their own club. Mr. Cone-frey proposed "Our Guests" and Mr. P. O'Briain (liaison officer of the Pharmaceutical Society of Ireland) replied in Irish.



GAELIC ATHLETES: A group photographed at the annual dinner of the College of Pharmacy G.A.A. Club. Third from the left in the front row is Mr. G. Flynn (team captain) and on his left is Mr. P. O'Hara (vice-captain), Standing immediately behind the captain is Mr. Peter Leydon (wearing glasses) (chairman of the Club) and on Mr. Leydon's right is Mr. T. Lawlor (club secretary).

### IRISH BREVITIES

#### THE REPUBLIC

OIL has been found on property belonging to Mr. S. J. Collins, M.P.S.I., at Kilkee, co. Clare. Exclusive rights of drilling and exploration in the Republic, however, by agreement with the Government, belong to two American oil companies.

### NEWS IN BRIEF

DR. Jonas E. Salk is to attend the annual congress of the Royal Society of Health at Harrogate in April.

THE Royal Society is celebrating the tercentenary of its foundation from July 18 to 26, 1960.

SENIOR staff of Cussons, Sons & Co., Ltd., soaps manufacturers of Kersal Vale, Salford, Manchester, 7, held their annual dinner in Manchester, recently.

SLIGHT damage was caused to the pharmacy of J. Bury, Ltd., 5 Police Street, Manchester, by a fire on January 14.

MR. R. Goode, M.P.S. (proprietor of P. D. Nowell & Co., chemists, 246 High Road, Wealdstone, Middlesex) has been appointed to the General Optical Council. He was nominated by the Institute of Optical Science.

A GIFT of £150,000 for the endowment in perpetuity of the chair of pharmacology of the Royal College of Surgeons of England has been made by Mr. G. A. Vandervell (chairman, Vandervell Products, Ltd.).

In his annual report, the youth employment officer of Smethwick, Staffs, claims that young shop assistants are not being taught their jobs properly. There is a lack of finish to their courses, he says, and suggests that courses should be properly planned "with a more scientific approach."

MR. A. H. Cragg (a director, Boots Cash Chemists (Southern), Ltd.) is a member of the judging panel for the British paper box design contest for which entries are being accepted by the British Paper Box Federation, 27 Chancery Lane, London, W.C.2, from February 1 to 28.

A LETTER from a pharmacy student, David Morton, published in the Glasgow Herald on January 13, complains that fifteen or sixteen students who were able to complete the first year of the Pharmaceutical Chemist diploma course in Paisley, must travel to the east coast (Aberdeen, Dundee or Edinburgh) for two years to complete their studies. The letter refers to Glasgow's abandonment of the diploma in favour of the degree course.

As the outcome of a meeting between a group of Birmingham Labour members of Parliament and a deputation from the local branch of the Socialist Medical Association, the Labour Party's "shadow cabinet" is being asked to seek an early debate about the suggested proposal to allow private patients to be supplied with drugs at the nominal charge made under the National Health Service. The Association considers that such a provision could lead to a lowering of the standards of the service.

### **TOPICAL REFLECTIONS**

By Xrayser

Approval

Your account of the proceedings of the January meeting of the Council of the Pharmaceutical Society (p. 63) contains the information that a special meeting of the Finance Committee, called to approve the estimates for 1959, noted that the Privy Council had approved the alteration to the Society's by-laws so as to provide for the increase of members' retention fee from £3 13s. 6d. to £5 5s., as from January 1. The Finance Committee does not wear its heart on its sleeve, or perhaps it is the report itself that is lacking in emotion. It states, simply, that it "noted." We are given no indication of the mood induced in the Finance Committee by the Privy Council's approval. One feels so much more present in spirit if a report says "noted with satisfaction"; or "noted with gratification"; or, alternatively, "noted with grave misgiving." By the exercise of a little imagination it is possible to arrive at some estimate of the mood, for it would seem unlikely that the body which asked the Privy Council to approve of the increase would receive that approval with grave misgiving. All that is now necessary to complete the general harmony is for the recipients of the demand for the retention fee to register their approval along with their remittance. (The demand, arriving hard on the heels of Christmas greetings, and in company with buff envelopes soliciting money by a given date, brings the reminder that life is both real and earnest.) To many, the retention fee represents a considerable sum, and full approval will result only from the knowledge that the Council will spend the income with the same care and the same attention that its members would apply to their own affairs.

### The Stuff

A recent advertisement in The Chemist and Druggist intimated the future policy of a firm in the fruit drinks industry in relation to "fixed" and "recommended" retail prices. One range of prices is to be rigorously protected. The other range states that the "recommended" retail prices are a recognition that members of the trade "may wish to determine their retail price according to their respective needs and sales policies." It is to be expected that the second range will find favour with those firms who have let loose a price-cutting war over a wide field of advertised products. Government spokesmen, as well as newspapers, are constantly reminding us of a fall in world prices of raw materials, but casual observation suggests that the only evidence is that displayed by retail pricecutting. Surely the correct method, if the whole economy of retail distribution is not to be wrecked, is for price reduction at all points manufacturing, wholesaling and retailing. I had thought that that principle would be generally recognised. Yet the Prime Minister, in his recent tour in the north of England, told the manager of a price-cutting grocery: "Pleased to see that. That's the stuff. Get the prices down." The remark must have disappointed those in a small way of business who find the profit margin little enough already. The general public may feel that all that matters is that they are asked to pay less, but the issue is much wider than that.

### Pharmaceutical Vacancies

The decision of the Council of the Pharmaceutical Society (p. 63) to publish a notice in its official journal with reference to conditions of employment in public service and overseas appointments may not meet what was in the minds of the Guild of Public Pharmacists. The Guild had asked that whenever an advertisement for a pharmacist was not accepted because of some unsatisfactory condition of service, a notice should appear in the advertisement pages of the Society's journal asking members to correspond with the secretary and registrar before accepting employment with the advertiser in question. That would seem to suggest that the journal should name the author of the offending advertisement, but that is not what the Council decided to do. If the advertisement appears elsewhere and not in the Society's journal it does not follow that the advertisement was refused by that organ. It may not have been sent.

### **EXAMINATION RESULTS**

### Successful Pharmaceutical Chemist candidates in England and Wales

THE following candidates have satisfied the examiners in the Pharmaceutical Chemist Qualifying examination held by the Pharmaceutical Society in England and Wales in December 1958. (†=Certificate withheld pending evidence of practical training or age):-

Airley, A. A., Prestwich †Ajayi, T. A. A., Lambeth †Allikiwi, Suzanne E., Heckington †Anderson, J. W., Ellington †Anson, Harriet, Chigwell †Appleyard, Kathleen M.,

Mirfield Asher, D. M., Stockport †Baker, D. A. P., Portsmouth Baker, G., Wooburn Green Ballin, M., Sheffield Bamford, M. H.,

New Longton †Bampton, Neeta M., Swindon †Barash, F. N., Salford Barnes, P., Buckfastleigh Barr, F. R., Chorley Wood Battersby, G. M., Guildford

†Baxter, Anne, Surbiton Baxter, R., Rothwell †Bayless, Pamela, Edmonton †Bell, J. H., Newcastle †Benson, G. G., Bolton Beynon, Janice G., Swansea

†Bingham, B. T., Letchworth Booker, M. R., Conway Bosworth, Patricia M., Retford

Boyd, R. C., Formby †Braithwaite, Yvonne M., Sedburgh

†Bratch, J. S., Dartford †Bridger, K. G., Brighton Brooks, Margaret M., Wimborne

Brown, I., Salford †Browne, Patricia M., Southampton

†Browning, Barbara D. H., Manchester

†Bryant, J. D., Smethwick †Buckley, D., Manchester Butterworth, A. J., Denton †Carson, J., Willesden Green †Chatoo, B. A. M.,

Dar-es-Salaam †Chauhan, N. M. N., Leicester

†Chenoy, N. C., Paddington Clasper, J. R., Nottingham Clewer, H. G., Leominster †Clifford, Doris,

Godmanchester †Clough, D., Blackpool †Cockcroft, K. L., Huddersfield

Cocks, Janet, Burnley †Connock, Sylvia M., Crowthorne

†Cookson, K. H., Preston Cooper, A. E., Upton-on-Severn

Cooper, I. M., Whetstone †Cooper, J. B., Wigan Cooper, Valerie M.,

Southport †Curran, Eileen M., Portslade

†Currie, M. J., South Molton Davies, R. E., Chester

†Deas, Mary, Coventry †Dennis, R. P., Leicester †Donkin, Elsie, Chelsea

Dowen, Carol J., Cradley Heath †Downs, Judith M., Manchester

Eckert, F. C., Brighton †Edwards, J. P.,

Milford Haven †Elliott, D. N., Manchester Elliott, L., Scarborough

†Ellis, G. B., Huddersfield †Elliston, R. V., Brighton Evans, Catherine M., Bedford

†Evans, E. H. A., Crumlin †Evans, G., Stourbridge †Evans, Gwendoline A. B.,

Rhyl Everett, M. G., Yeovil Eyres, P. S., Northwich †Fernihough, Evelyn J.,

Nottingham Flatley, A., Oldham Flood, Margaret A.,

Southampton †Foster, J. H. S., Poole Frith, M. G., Twickenham

Furst, C. I., Glasgow Ganderton, D., Northampton †Gardner, Barbara J., Farnham

†Gartside, R., Oldham Gatheridge, June A., Barry George, Kathleen M.,

Chesterfield Gill, Margaret E., Banwell Gold, C. H., South Chingford

†Gold, S. G., Salford †Goodall, R. M., Lancing Goodman, Nesta S., Manchester

Gould, J., Liverpool Grice, R. F., Salford Griffin, Patricia D., Plymouth Griffiths, P. J., Rhuddlan

†Hagan, Elizabeth P.,

Liversedge Hallett, S., Weymouth Harris, J. M., Northampton Harrison, D. M., Southport †Harvey, M. C.,

Weston-super-Mare †Hawkins, B. M., Bristol †Hay, Louise I. N.

Goodmayes Hazell, C. F., Cardiff Hewins, G. E., Manchester Heyde, Elizabeth A.,

Wallington †Hibbs, Sonia M., Manchester †Hickey, Olive M.,

Raynes Park Hicks, J. R., Ipswich Hicks, R., Penzance Higgins, J. C., Harrogate †Hind, F. J., Leicester Hodgson, V. C., Altrincham †Holland, Janet E., Leicester

†Howlett, J. W., Harpenden †Hudson, Sheila P. A., Coulsdon

†Hunt, Hilary V., Oxford †Iskander, R. A. M., Cairo †James, N. H., Sidmouth Jefferson, G. C., Morecambe

Jefferson, M. H., Sheffield Jenkins, D. E., Herne Hill †Jolliffe, P. F., Blackburn Jones, D. B., The Hyde †Kenney, E. J., Rotherhithe †Knightly, Angela, Wanstead †Leach, R. H., Bristol †Leaver, P. N., Rickmansworth Lester, Joan M., Aspley Lilleyman, Susan M.,

Felixstowe †Lim, C. L., Malaya †Lising, Kwet K. M.,

Blackrock †Locke, G. W. Chelsea †Long, Sylvia M., Pontypool †Longson, Mary, Romiley Lubert, R. H., Neasden †Lutchmunsing, K. P.,

Bedford Park McNamara, J. A., Manchester †Machin, Jillian S., Leicester Magan, N., Capetown Mallick, S. K., Sunderland Marks, Loretta M.,

Manchester Martin, Margaret I., York Martin, Mary P., Leeds Massey, W. D., Leigh †Miller, Maureen D.,

Aberdeen Mitchard, M., Bournemouth †Molokwu, P. I., Westminster Monk, P. H. W., Hengoed Morgan, I. T., Caerphilly Morley, C. H. P., Dover Morris, Mary P., Birmingham †Moser, M. I., Ilford

Murty, Eileen, Beeston †Myers, M., Regent's Park Newby, L., Leeds †Newton, D. H., Hull Newton, J. M., Manchester †Norris, Joyce,

Ashton-under-Lyne †Nylander, Lucy V. S.,

Leicester †Obi, R. U., Balham †Ohiro, N. E., Shepherd's Bush †Onodipe, L. B., Sunderland Owens, C. A., Abergele †Owston, A. Y. M.,

Saltburn-by-Sea Parfitt, R. T., Newport, Mon †Parker, M. D., Harrow †Patel, A. K. S., Edinburgh †Patel, B. R., Bombay †Patel, N. M., Leeds Pearce, J. R., Tiverton Pearson, A. C., Glasgow †Peck, Janet M., Stapleford Peet, Jacqueline A., Sale †Pigot, Shirley, Wigan

†Pilkington, Margaret F., Manchester Plimley, Ann, Birkenhead †Po, K., Liverpool †Pollard, Sylvia C., Hounslow Power, D.. Oldham †Poyser, Margaret W., Leeds Prescott, D., Tettenhall

†Price, Brenda G. A., Rhymnie †Pugh, Ann O., Aberdare †Ransom, M. H., Letchworth †Reece, Gwyneth, Bishop's Castle

†Rees, W. T. R., Cardiff Reynolds, W. J., Hoylake †Richardson, A., Manchester †Richardson, N. A., Blackpool †Rimer, P. W., Bowes Park Robbins, P. J., Maida Hill

Roberts, E. R., Rhyl †Roberts, Patricia J., Cardiff †Robinson, J. B., Manchester Roedel, M. C. M., Sheffield Rowney, D. T.,

Wolverhampton Ryan, Honora B. M.,

Newport, Mon Ryder, W., Roby Sargent, Audrey M., Brighton

†Sawicka, Boguslawa J., Melton Mowbray †Schenker, M. L., Stoke Newington

†Schneider, C., Forest Gate †Shah, C. J., Leicester †Sharp, Jane M., Nottingham Shaw, F., Barrow-in-Furness †Sheikh, R. U., Leicester

†Sherman, J., Stoke Newington Simon. S. L., Leeds †Skerritt, Sylvia M., Rushden †Smith, C. J., Birmingham

Smith, L. G. T., Newport, Mon Smith, M. J., Gloucester †Solomon, D. A., Liverpool Sugden, J. K., Lichfield

†Sumner, Ruth M., Chilwell †Syms, Marion M., West Wickham

†Taylor, K. F., Bradford †Taylor, M., Nottingham †Thompson, Margaret L.,

Manchester Tompkins, M. J. G., Birkenhead †Wall, Patricia P.,

Bognor Regis †Wallner, E., Slough †Ward, J., Norbury †Webb, T. W. N.,

Stoke-sub-Hamdon Weinronk, M., Liverpool White, Valerie, Frome

Whitefield, M., Upper Clapton †Whitefield, M. S., Upper Clapton

Wild, Sheila H., Liverpool Wilkinson, M. L., Sheffield Williams, D. P., Wrexham

†Williams, Elaine A., Stoke-on-Trent †Williams, Jennifer A., Tipton

Williams, J. M., Brecon †Williams, P. J., New Eltham Williams, R. D., Birkenhead †Wilson, June P.,

Manchester †Woodman, Flora M., Torquay

†Worth, Susan B., Hatch End Yates, J. A., Wolverhampton †Ziege, Angela S., Finchley

HOW TO FIT A TRUSS: The practical side of truss and elastic hosiery is clearly and fully dealt with in an illustrated 48-p. pocket-size booklet published by The CHEMIST AND DRUG-GIST, price 4s. 8d., post free.

#### NEW PRODUCTS AND PACKS

All-British Steroid. - The British Drug Houses, Ltd., Graham Street, London, N.1, are marketing a new speciality, Secrosteron (dimethisterone) tablets. Described as a new orally active progestational agent and "the first all-British steroid discovery," dimethisterone is understood to have greater potency than ethisteronc when given by mouth, and to bring about secretory changes in the endometrium without estrogenic or androgenic action. Secrosteron is presented as 5-mgm. tablets in bottles of thirty and

Spray for Local Analgesia. — An oxycaine atomiser, now being marketed by the medical division of British Oxygen Gases, Ltd., Great West Road, Brentford, Middlesex, is operated by oxygen pressure to give a steady and continuous spray. The product has been designed primarily for use with the Boyle range of anæsthetic apparatus, but may also be fitted to similar equipment of other provenance. It eliminates the need for hand pumping, which often imparts a jerky movement of the nozzle. A hand grip is formed by (a) the cylindrical body of the spray and (b) a projection that houses a finger-operated press-button control. Provided it is filled no higher than the indicator. it is filled no higher than the indicator line, the spray is non-spillable. Body and bottle are made from a clear plastic material, and the amount of fluid in the spray is thus readily ascertained.

Sore-throat Lozenges; Anti-cough Tablets.—The Distillers Co. (Biochemicals), Ltd., Broadway House, Wimbledon, London, S.W.19, announce the availability of two new medicinal specialities. Zynocin lozenges present xanthocillin antibiotic and benzocaine local anæsthetic in a pleasantly-flav-oured lozenge suitable for administration to adults or children. Xanthocillin, which is understood to be effective against the gram-positive and gramnegative organisms found in the majority of infections of the respiratory tract, also inhibits secondary yeast and fungal activity. The manufacturers claim that it has not been found possible to induce resistance to xanthocillin, and that there is no evidence of cross-resistance. Each lozenge contains 1 mgm. of the antibiotic and 5 mgm. of benzocaine. The pack is a tube of twelve lozenges. The other new speciality, Distolyt tablets, represent a "balanced" combination of chlorcyclizine hydrochloride (10 mgm.) and guaiacol glyceryl ether (100 mgm.) presented as tablets. The formulation is claimed to facilitate expectoration of tenacious mucus and to reduce the frequency of excessive unproductive cough. Distolyt tablets, which are issued in tube of twenty-four and bottle of 100 tablets, are a Schedule 4 poison.

Counter Lines. — Eltibar Developments, Ltd., 70 Hyde Road, London, N.1, are introducing two new products to the home market. "Gaul Green" rheumatic massage is described as "a break-away from the usual vanishing-cream base rheumatic rub." The absorbent base of the product is moisturefree in accordance with the findings of

a French dermatologist, who claims for the formulation a greater percutaneous "Gaul Green" is packed absorption. in bottles of two sizes. The London agents are Castle Huskisson, Ltd., Swinton Works, Moon Street, London, N.1. The other product, Gumbulce dental ointment, is intended for soothing gum ulcers due to dentures, sores and nose sores, etc. It is issued in a jar. The Midland and Lancashire agents are John Knox (Stoke-on-Trent), Ltd., Janox Works, King Street, Fenton, Stoke-on-Trent.

Jordan Water. — M. & R. Norton, Ltd., 9 Park Hill, London, S.W.4, are marketing eau de Cologne imported

The product is bottled, packed and sealed in Israel. Available Also in Tube.—Elizabeth Arden, Ltd., 25 Old Bond Street, London, W.1, announce that their "Veiled Radiance" foundation cream is now available in a pink and gold tube.

After-shave Lotion.—As a companion to their "Cedar Wood" shaving bowl, Goya, Ltd., Amersham, Bucks, are marketing a "Cedar Wood" after-shave lotion. They state that, though called an after shave at the state of the shave the state of the shave at the s called an after-shave, the product is really also an astringent tonic Cologne with a refreshing and stimulating effect upon the skin. Its perfume is "very masculine and sophisticated," and the price is deliberately moderate.

from Israel, in "biblical" 4-oz. urn.

#### TRADE NOTES

Bottles of 500.—Lederle Laboratories division of Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, announce that Ledercort tablets, 2-mgm. and 4-mgm., are available in an additional 500-tablet pack.

An Additional Size. — Imperial Chemical Industries, Ltd., pharmaceuticals division, Fulshaw Hall, Wilmslow, Ches, are adding a 100-mil bottle of Hibitane chlorhexidine concentrate 5 per cent. to the existing range of sizes of the product

Change of Container. — Cavalcade Beauty Preparations, Ltd., 9 Park Hill, London, S.W.4, are now issuing their Hanri egg shampoo in a new plastic tube (bottle discontinued). It is also available in an egg-shaped container.

Distribution Area Extended.—Antussin cough treatment, which has been available in the Midlands since November 1958, is being launched in the London and Northern television areas during January. Antussin, which is distributed exclusively through chemists. contains dextromethorphan hydrobromide.

Aerosol Prices Reduced. - Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts, announce reductions in price of their aerosol products flykiller, Fresh-Aire, crawling-insect killer, moth-proofer and woodworm killer. Television and Press advertising is being stepped up to more than double that of 1958 and special point-of-sale display material is being made available to stockists. Price adjustments on stocks held by chemists are being arranged through the company's representatives on their next call.

Drinking Water from Sea Water. -The crew of the balloon "Small World," which in its intended trans-"Small atlantic flight was compelled to "ditch" in mid-ocean, was able to maintain supplies of drinking water by use of Permutit "drinking-water from sea-water" kits. The kits used were of standard design. Each can produce a total of  $4\frac{1}{2}$  pints of drinking water yet it occupies only 3 x 3 x  $4\frac{5}{8}$  in. Operative ing by a special ion-exchange process it requires no heat, the sea water being merely mixed with the ion-exchange briquettes in a flexible bag and the pure water then squeezed into the Perspex box that also serves as a container for the kit.

#### **Bonus Offers**

ELIZABETH ARDEN, LTD., 25 Old Bond Street, London, W.1. "Trio plus" pack (cleansing cream; skin tonic; Velva cream or orange skin food, plus token gift of eight-hour cream in cap of skin tonic bottle). At 7s. less than usual cost. To Arden stockists. Until March 28.

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15. Radian range and Radiol veterinary products. Display offers (see C. & D., January 3, p. 10), closes on January

VITAMINS, LTD., Upper Mall, London, W.6. Bemax. Bonus terms on five special parcels until February 7, are listed on another page.

IMPERIAL CHEMICAL INDUSTRIES, LTD., pharmaceuticals division, Wilmslow, Ches. I.C.I. aerosol insect spray. 5 per cent. off trade prices. Until April 30.

#### **MANUFACTURERS' ACTIVITIES**

Competition for Assistants.—Genatosan, Ltd., Loughborough, Leics, announce a Sanatogen contest for assistants, with prizes of £100, £50 and £25. Entrants are required to select one of three given answers to ten questions relating to the product.

Record Sales of Blades. — The razors and blades division of Gillette Industries, Ltd., Great West Road, Isleworth. Middlesex, announce that 1958 was a record year for the sale of blue Gillette blades and that the company's razor sales were the highest since 1950. In November 1958 the final shipment of an order for  $1\frac{1}{4}$  million blades to Russia took place. Other orders from overseas included one million for Bulgaria and 200,000 for Czechoslovakia. The division also announces changes in the sales organisation. Two area offices. one at 7 Kingsway, London. W.C.2, and the other at 414 Royal Exchange, Manchester, are being made responsible for co-ordinating administrative work. The offices replace existing district offices in London and Manchester and the other district offices in Glasgow, Leeds and Birmingham, which are now closed. They will be controlled in the north by Mr. A. J. Gray and in the south by Mr. W. Capel.

#### **PERSONALITIES**

MR. K. G. SINCLAIR (chairman, Griffin & Gcorge group of companies), left London on January 17 for a tour of India, Singapore, Australia and New Zealand; he returns to the United Kingdom on March 22. Mr. Sinclair's goodwill tour coincides with the publication of the group's most recent catalogue of physical and laboratory apparatus, and he will be carrying with him the first copy of this 350-page catalogue.

MR. C. L. FERNS, who for seventeen years has been factory director at Trufood's Creameries at Wrenbury, Ches, recently retired after thirty-four years service with the company. Originally Mr. Ferns intended to become a farmer and studied at Holmes Agricultural College. His career was interrupted by the 1914-18 war and, after service in the army, he studied scientific and practical agriculture at Man-chester University. Finding that farming during the post-war slump offered few prospects, Mr. Ferns decided to make use of his knowledge of milk and joined Glaxo Laboratories, moving to Trufood, Ltd., in 1923. After only three years with the company he rose to be sales manager. In 1930 he became factory manager and in 1941 was appointed to the board.

#### **DEATHS**

BENNETT. — On January 14, Mr. Frederick William Moncrieff Bennett, M.P.S., Abbey View, Hayshead Road, Arbroath. Mr. Bennett served his apprenticeship in North Berwick; he qualified in 1898 and had just completed sixty-one years on the Register at the time of his death. For many years he was in business at 238 High Street, Arbroath. During the past fifty years he had been one of the most outstanding men in pharmaceutical affairs in Scotland. He took a prominent part in the organisation of pharmacy prior to the inception of the National Health Insurance Act of 1911 and was a founder member of the Pharmaccutical Standing Committee (Scotland), on which he served from 1912 to 1952. He was also a member of the General Council of Panel Chemists (Scotland) from 1914 and was chairman of both bodies from 1938 to 1952. At the time of his retiral from those committees because of ill health, he was presented with his portrait in oils at a complimentary luncheon held in his honour in Edinburgh; the portrait now hangs in the Society's Hall in 36 York Place. Mr. Bennett was also very prominent in the affairs of the Pharmaceutical Society and was first elected to the North British Executive in 1925 and was its chairman from 1935 to 1937. He retired from that body also in 1952. Mr. Bennett was a member of the Statutory Committee from 1944 to 1949.

Mr. M. M. McNeill writes: Mr. Bennett was regarded as one of the most authoritative "elder statesmen" in Scottish pharmacy. His long association with pharmaceutical politics began in 1912 and continued until ill-health forced him to retire in 1952. In his valedictory address to the General Council, he recalled that he had been

connected with pharmacy for sixty-two years. He had a justifiable pride that, when he retired, Scotland had in the Pharmaceutical General Council "an organisation which enabled pharmacists to meet one another, to understand each other's difficulties and to offer a united front." The present-day conditions are in no small measure due to Mr. Bennett's own efforts. With an acute analytical mind, he approached our problems with a clarity of purpose and his logic was irreproachable. He had a fine flair for the tactics and strategy of the struggle. A man of kindness and good humour, he endeared himself to all who knew him.

FORD. — At Clifton, Glengate, Kirriemuir, Angus, on January 16, Miss Betsy Ford, M.P.S. Miss Ford qualified in 1892. She was the eldest daughter of the late James Ford, J.P., chemist, Kirriemuir.

RANKIN. — Suddenly, at his residence, 78 Cavehill Road, Belfast, on January 11, Mr. Hugh Rankin. Mr. Rankin, on his demobilisation at the end of the first world war, joined his father and brother in the firm of W. J. Rankin & Son, manufacturers' agents, Belfast, and was a popular figure amongst Northern Ireland chemists, particularly in golfing circles. At his funeral the Pharmaceutical Society of Northern Ireland was represented by Mr. J. Caldwell (vice-president) and Mr. W. Gorman, secretary; the Ulster Chemists' Association by Mr. J. A. Brown (president), Mr. W. J. Moffett (vice-president) and Miss A. E. Strachan (secretary); and Mr. W. H. Boyd (sccretary) represented the Ulster Chemists' Golfing Association.

ROBERTSON. — In hospital, on January 10, Mr. David Barr Robertson, M.P.S., 38 Kirksyde Avenue, Kirkintilloch, Glasgow, Mr. Robertson qualified in 1920.

ROSE. — Recently, Kathleen Annie Rose, M.P.S., 34 Hawthorn Crescent, Wollaton Park, Nottingham. Miss Rose qualified in 1926.

YOUNG.—On January 14, Mr. Frederick Goodwin Young, M.P.S.I., Weston, Newbridge, co. Kildare, Eire. Mr. Young qualified in 1908.

#### **BUSINESS CHANGES**

C. S. NASH CHEMISTS (HOL-BORN), LTD., 332 High Holborn, London, W.C.2, have closed.
AEROSOL PACKAGING CO.,

AEROSOL PACKAGING CO., LTD., is the new trading title adopted by Safca Aerosol Manufacturing Co., Ltd., Bracknell, Berks.

SANDOZ PRODUCTS, LTD., are moving their pharmaceutical manufacturing department to Calverley Lane, Horsforth, nr. Leeds, on February 1.

J. H. HAYWOOD, LTD., Nottingham, have transferred their surgical manufacturing and dispatch departments to more commodious premises at 24 Warser Gate (telephone: 51911).

MASSEYS, chemists, 13 High Street, Guildford, Surrey, because of redevelopment of the street, are moving to temporary premises at 203 High Street, on March 31, or slightly earlier. By the end of 1960 the owners (Mr. K. W. Massey, M.P.S., and Mrs. S. E. Massey,

M.P.S.), hope to be in one of the shops in a new block to be erected in the High Street by Norwich Union Insurance Society.

#### **Appointments**

REMINGTON RAND, shaver division, 26 Kensington High Street, London, W.8. have appointed Mr. J. R. Thwaites their national sales manager.

SANDOZ PRODUCTS, LTD., 23 Great Castle Street, London, W.1, have appointed the following to their representative staff:—Messrs. A. F. Brown, N. B. Butcher, J. B. Cornwall, G. Wyn Evans, M.P.S., and H. A. Hayward.

BRITISH COD LIVER OILS (HULL & GRIMSBY), LTD., St. Andrew's Dock, Hull, Yorks, have appointed Mr. Norman Moulson as field sales executive.

THOMAS HEDLEY & CO., LTD., Gosforth, Newcastle-on-Tyne, 3, announce the following appointments: Mr. R. F. Jackson their retail sales manager; Mr. R. W. Franchi western division manager and Messrs. W. R. Bruce and N. R. Sabey to take over responsibility for the northern and southern divisions of the retail sales department. Mr. A. S. Jeffares succeeds Mr. Franchi as district manager, Birmingham.

#### **COMPANY NEWS**

SOUTH AFRICAN DRUGGISTS, LTD.—Mr. H. L. Karnovsky has resigned from the board.

TRUFOOD, LTD. — Mr. Walter White has been appointed factory director.

IMPERIAL CHEMICAL INDUSTRIES, LTD. — Mr. G. K. Hampshire (chairman of I.C.I.'s general chemicals division) and Dr. J. S. Gourlay (chairman of the paints division), have been appointed to the Board of I.C.I. with effect from February 2.

MACARTHYS, LTD. — Mr. E. E. Farrant, M.P.S., has been appointed chairman. Mr. A. R. Ritchie, B.Pharm., A.R.I.C., F.P.S., has been appointed managing director of Macarthys (Wholesale Chemists), Ltd., in succession to Mr. E. E. Farrant who has relinquished that post.

BOVRIL, LTD. — The company has raised around £550,000 by liquidating about four-fifths of its holding in Brand & Co., Ltd. Out of a holding of nearly a million shares Bovril has sold upwards of 800,000 at a price just below the market level which over two days rose from 13s. 9d. to 15s.

SANGERS, LTD.—Resolutions to create and issue £750,000 Unsecured Loan stocks 1979–84 to increase the capital by 2·8 million 5s. Ordinary shares and to effect the one-for-one scrip issue were passed on January 12. The money is required partly for expansion and partly to pay off loan stock due for redemption on March 1. Dealings in the new stock are expected to begin on January 27.

COW & GATE, LTD.—A merger between the company and United Dairies, Ltd., has been agreed. Ordinary shares are to be exchanged into those of a new holding company under the chairmanship of Mr. L. Maggs (chairman, United Dairies, Ltd.), with Mr. E. E. Taylor (chairman, Cow & Gate, Ltd.), deputy chairman. Cow & Gate is to contribute about one-third of the new company's capital.

#### **New Companies**

MONDART, LTD., 49 Park Lane, London, W.1, has been formed jointly by Thomas Tilling, Ltd., and Commercial Plastics, Ltd., to "market a complete range of aerosols." Mr. R. T. Copp (sales director, Fablon, Ltd.), has been appointed managing director of Mondart, Ltd.

PHILLIPS NUNNEY & CO., LTD. (P.C.).—Capital £100. To acquire the business of dispensing chemists carried on by C. J. Nunney & Co. (Chemists), Ltd. at 2 Settle Road, Plaistow, E.13, etc. Directors: James Kent, M.P.S., Cyril J. Nunney, M.P.S., Edward D. Phillips, M.P.S., and Wilfred B. Jordon, M.P.S.

#### IN PARLIAMENT

PARLIAMENT resumed after the Christmas recess on January 20. Among the many questions on that day were two by DAME IRENE WARD, both addressed to Mr. Derek Walker-Smith (Minister of Health). To the first he stated that he was waiting the outcome of talks between the Northumberland Executive Council and the board of governors of the United Newcastle Hospitals about waiting time for outpatient appointments with consultants. The second concerned the report from the Cranbrook Committee which the Minister hoped to publish on or about February 18. On the same day, MR. R. S. RUSSELL asked SIR DAVID ECCLES (President of the Board of Trade) to give an estimate on the effect on the industries protected under Key Industry Duty of implementing the 3 per cent. quota offer he made at the December 1958 meeting of the Council of the Organisation for European Economic Co-operation. SIR DAVID ECCLES, in a written answer, stated that the only goods formerly charged under the Safeguarding of Industries Act which were affected by the offer were certain scientific and optical instruments falling within a group for which it was estimated that the total annual quotas would be increased from £550,000 to £1,350,000. The quotas apply to a wide range of instruments, not all of which were charged under the Safeguarding of Industries Act and therefore no estimate the safeguarding that the safeguarding of Industries and therefore more than the safeguarding that the saf mate could be given of the effect on instruments so charged, nor were separate import figures available for them.

#### LEGAL REPORTS

**Forged Prescription** 

For demanding 100 dextroamphetamine tablets by means of a forged National Health prescription, Donald Rose, a West Kensington kitchen porter, was sentenced to gaol for four months at the West London magistrates court recently. It was stated that Rose had taken the prescription to Boots, Ltd., King Street, Hammersmith, but the tablets were not supplied. The prescription was withheld. When Rose was seen by the police he said, "Yes, I

forged it. I know I can't get them without a doctor's prescription, so I put them on myself. They would not let me have them and would not give me the prescription back."

#### Copyright Undertaking

An action brought by Bayer Products, Ltd., Kingston-on-Thames, Surrey, against West Pharmaccutical Co., Ltd., Church Road, Hove, 3, fell due to be called for judgment (to be entered by consent) in the Chancery Division of the High Court, London, on January 23. The case concerned an alleged infringement of copyright by Messrs. West of a pamphlet entitled "Pain" issued by Messrs. Bayer, and it is understood that the basis of the settlement is that West Pharmaceutical Co., Ltd., as defendants will undertake not to infringe the plaintiffs' copyright and to contribute £157 10s. towards their costs.

#### A Foreign Body

How a cockroach found its way into a bottle of medicine was a mystery, it was stated at Warrington magistrates' court on January 15, when Hill, Smith (Warrington), Ltd., chemists. Warrington, and the manufacturers of the medicine (Allen & Hanburys, Ltd., Ware, Herts), were each fined £5 and ordered to pay 13s. 6d. costs for selling a drug not of the quality demanded. Prosecution stated that a man presented a prescription at the Lovely Lane branch of Messrs. Hill, Smith, and was given two bottles. His wife gave a dose from one bottle to a child and then saw a foreign body, which turned out to be a cockroach, in the other bottle. He took it the following morning to the chief public health inspector. The corporation laid the complaint against Messrs. Hill, Smith, who then brought in the manufacturers. Mr. Robert James Philip, pharmacist in charge of the shop, said that, when he made up the prescription, the top was off the bottle for only 20-30 seconds while he poured in the water. It was most unlikely the cockroach was washed down the tap into the bottle, and there was no other way one could have got in at the shop. Mr. Ernest Kenneth Samway (a director of Allen & Hanburys, Ltd.), told the magistrates that it was more than a millionto-one chance that a cockroach should get into a bottle. Messrs, Hill, Smith pleaded not guilty to the offence, Messrs. Allen & Hanburys guilty after hearing the evidence.

#### Standard of Skill

In the Court of Appeal, London, recently, Lords Justices Hodson, Ormerod and Willmer allowed an appeal by the North Liverpool Hospital Management Committee and Dr. Edward Otis Pratt against an award of £435 damages to Mrs. Alice Williams, Kenilworth Park Road, Waterloo Park, Liverpool, for injury to her arm caused during intravenous injections of Pentothal in the course of a surgical operation for varicose veins performed at Bootle General Hospital on October 15, 1955. Giving judgment Lord Justice Hodson said the patient was exceedingly fat, which made it difficult to find the veins. The doctor had described his technique when he injected up to 5 mils of Pentothal, which produced no visible effects on the patient. A substantial part of the injection must have gone into the tissues because the tissues were injured and an abscess resulted, in respect of which Mrs. Williams had made her The question was in what way, if at all, the doctor was negligent. In his judgment there was no basis for a finding of negligence against the doctor, and the appeal should be allowed. Lord Justice Ormerod, concurring, said There are risks inherent in most forms of medical treatment and the use of anæsthetics is certainly no exception. . . . All one can ask of a practitioner is that he should keep those risks to the minimum to which reasonable skill and care can reduce them. If he does that no injury which occurs, however serious, will be actionable." Lord Justice Willmer, also concurring, said it had not been proved that the doctor had fallen short of the standard of skill required of him.

#### **DOCTORS AND THE HEALTH SERVICE**

#### "Unrealistic to withdraw" finding rejected by B.M.A. Council

"ITS value lies in the warning given to the profession by a nighly able civil servant who, we may be confident faithfully reflects the mind of the civil servants in the Ministry of Health," comments the British Medical Journal (January 17) on a report to the Association's General Medical Services Committee by Sir Frank Newsam (formerly permanent Under-secretary of State, Home Office).

Eight months ago Sir Frank was invited by that Committee to investigate general practice within the National Health Service. From his conclusion that "it is unrealistic of doctors to think of withdrawing from the National Health Service, the inevitable result would be the formation of a fully salaried service," the Council of the B.M.A. dissociates itself. The Council's belief is that, faced with a serious challenge to its principles and traditions, the medical profession might

be compelled to contemplate withdrawal from the Service.

In Sir Frank's view the best hope for the future of general practice is closer collaboration between the profession and the Ministries. He considers that working parties, similar to that set up in 1952 by agreement between the Health departments and the G.M.S. Committee, should be set up to consider:—

1. Whether the allocation of national resources to the constituent elements of the N.H.S. is correct;

2. Ways of implementing arrangements shortly to be made of keeping under review the remuneration of general practitioners;

3. The supervision of experiments into different methods of remuneration in different areas with a view to securing an improved distribution of doctors (on this point Sir Frank states there is an increasing body of opinion

that the maximum lists of patients are still too large);

4. Whether any steps can be taken to restore their mobility to general practioners

5. Whether present arrangements for recruitment to general practice, and in particular the present selection machinery, are capable of improvement (" It is still very difficult for young doctors to become established ").

Sir Frank also recommends a joint standing committee composed of doctors and officials continuously to review policy, with powers to pioneer and to foster promising lines of development. For that purpose the Executive Council administrative machinery is held to be too narrowly concerned with payment and discipline for this purpose. Sir Frank considers that to be truly national the Health Service must be available to everyone, but not compulsory for anyone. There will probably always be "private patients" and there is no obvious reason why they should be made to pay for drugs they really need, though their doctor must of course be prepared "to submit himself to reasonable discipline on the cost of his prescribing in the same way as the N.H.S. doctor.

Other points in the report are:—The overall standard of general practice in the United Kingdom falls short of what it might be, First-class doctoring is difficult for the family doctor with more than 2,000 to 2,500 patients, "for good doctoring takes time." With more than 2,500 patients the quality of a doctor's work may degenerate. The aim should be a list which the doctor can manage. It should be possible for a patient to change his doctor without undue fuss or formality. Conversely, a doctor should be able to rid himself of unreasonable patients with minimum restrictions. No reform of the N.H.S. is more urgent or would do more for the hospital service than an improvement in the family doctor service. There should be a two-way traffic between family doctors and hospital staffs at all

#### A CHARGE FOR DELIVERY

#### Breach of service terms by contractor

NOTTINGHAM Executive Council has recommended that a chemist who charged 7s. 6d. extra for turning out at night to dispense an urgent prescription should have £20 withheld from his remuneration. Details of the case, which was considered by the Pharmaceutical Service Committee, are that, in a letter dated September 16, 1958, Mr. Z (a patient) informed the Council that during the evening of September 15, 1958, an "urgent" prescription had been issued in respect of his baby son, and that when he had telephoned Mr. D (the contractor) at 11 p.m., he had agreed to dispense the prescription upon payment of a personal fee of 7s. 6d. in addition to the normal statutory charge of 2s.
When asked for his observations on

Mr. Z's letter, Mr. D replied:—

- (1) My house is situated about 4 miles from my pharmacy in . . ., where, with Mr. E, chemist. I share the responsibility for the pharmaceutical service in . . . and district.
- (2) As I appear to be the only practising pharmacist who lives in this area of . (approx. 100 sq. miles) I was asked some years ago by the local doctors if I would be prepared to dispense and supply medicines regarded as urgent after normal service hours. I replied that I would do my best to provide such a service on prescriptions marked "urgent" providing I was at home. Accordingly the local doctors have familiarised themselves with my home address and 'phone number and, for some years, have been in the habit of sending patients with urgent prescriptions to me if they felt that the circumstances warranted it.
- (3) As a result of this, somewhat to my surprise at first it must be admitted, 1 have been getting an average of 50-100 patients per year making contact with me at my home address at all nonpharmacy opening hours, even in the small hours of morning.
- (4) In most of these cases, I have to make use of my own car to go to the shop to make up the medicines. In a few cases patients have provided their own transport for me.
- (5) About six or nine months ago it was borne upon me that in providing this service I was not only giving up many hours of my free time (for this I am re-imbursed to some small extent by

- the "Double Dispensing Fee")-but also that I was financially well out of pocket by many pounds in the course of a year after paying for petrol, oil and general car maintenance expenses involved in my incursions at all hours
- (6) Accordingly, as no provision appears to be made in the health service regulations to make good this expense to a pharmacist contractor, I have recently been asking all patients who call me out late at night for a 7s. 6d. fee. This, I try to make clear, is to cover my transport expenses to and from my shop in . . . , to save time and taxi bills, and is nothing at all to do with the Health Service Scheme proper.
- The patient's father who wrote the letter to you, according to the doctor who issued the urgent prescription, was issued with this prescription at approx. 7.15 p.m. September 15. Nothing appears to have been done in the matter until 11 p.m. when, as the patient's father says, he 'phoned me. On the telephone I told him that if he wished, and if he paid my 7s. 6d. transportation fee, then, late as it was, I would come the four miles into . . . . to make up the prescription. This he agreed to do.
- Had I refused to dispense the prescription, as I believe my terms of service permit me to do, Mr. Z's only reasonable chance of obtaining it after 11 p.m. would have been by travelling to . . . . —which, as no buses are available at that hour, would have involved him in taxi fares of somewhere around £3.

As a final comment, I feel I must point out that, while I am most anxious not to exploit sick people in trouble, I cannot see why I should be called upon to subsidise them in the incidental travelling costs involved in making up their prescriptions. As I have remarked already—this urgent prescription is not an isolated case, but one of many which I am called upon to deal with at night-time in the course of a year.

On November 20, 1958, Mr. Z informed the Council that he would be unable to attend the hearing but that his wife would be present. In a letter dated November 19, 1958, Mrs. Z stated that the doctor had visited her child at approximately 7 p.m., on September 15, when he had issued an "urgent" prescription and requested that she should telephone Mr. D re-

garding the dispensing of the prescription. Mrs. Z had been alone with her two children until her husband had returned from work at approximately 10.20 p.m. In the circumstances she had arranged for a neighbour to telephone the chemist at his home. The chemist's wife had advised the neighbour that her husband would not be home until approximately 11 p.m. Mr. Z had arrived home from work at 10.30 p.m., and Mrs. Z had telephoned the chemist shortly after 11 p.m. Mr. D had then informed Mrs. Z that he had just arrived home after having taken his children back to school. He had then said that he would return to the shop said that he would return to the shop to dispense the prescription but that there would be a personal charge of 7s. 6d., or alternatively, the prescription could be dispensed in N..., a distance of twenty miles. Mrs. Z had agreed to pay the 7s. 6d. and her husband had fetched the medicines at approximately 11.30 p.m.

#### A "Personal" Fee

In evidence, Mrs. Z confirmed her written statement and informed the Committee that her husband had not been given a receipt for the 7s. 6d. which he had paid to Mr. D. Mr. D. in his evidence stated that he had charged a personal fee in approximately twenty cases only. He had never refused to dispense an "urgent" prescription and in cases of hardship had waived his charge of 7s. 6d. He had not realised that a doctor was required to supply to a patient such drugs and to supply to a patient such drugs and appliances as were required for immediate administration or application or for use before a supply could be obtained otherwise. He had not read his terms of service very carefully and in consequence had failed to appreciate that he was not permitted to make a charge for the supply of drugs, containers or appliances other than the

statutory charge.

The Executive Council approved the committee's decision "That Mr. D was in serious breach of the Terms of Service in that he had made a charge for the supply of drugs other than that authorised under the Regulations," and recommended making representations to the Minister of Health that the sum of £20 should be withheld from Mr. D's remuneration plus a sum of 7s. 6d.

to be refunded to Mr. Z.

#### **OPIUM BOARD'S 1958 REPORT**

#### West German government criticised

"COMMERCIAL interests must yield to considerations of public health states the Central Opium Board in its report to the Economic and Social Council on the work of the Board in 1958 (United Nations publication 58.XI.5, price 5s. 6d.). The report in making the remark is criticising the West German production and exports of normethadone antitussive preparations marketed under the names Taurocola, Ticarda, etc. Normethadone, which the Board regard as being no less dangerous than morphine, was brought under interna-tional control during November 1954; but the Federal Republic of Germany, although the chief manufacturer of the drug, was not a party to the 1948 Protocol, and therefore was not bound to bring the drug under national con-trol. "Nor has it yet felt moved to do so," says the report, and accordingly the export of the drug has been unimpeded. Learning that Ticarda was being widely distributed, the Board wrote to the West German Government in 1957 and received the reply that 1,571 kilos of normethadone had been manufactured and 329 kilos exported in 1956 to no less than fifty-six countries "yet forty-eight of them had not mentioned the drug in their returns."
Upon inquiry, several of those governments replied the transactions had taken place without their knowledge. The Board considers that that unfortunate state of affairs was attributable not to defects in the international conventions but rather to the failure of governments to apply their provisions with due dispatch.

#### **Provisional Control**

The Board strongly recommends that, when any new product for which its inventors claim powerful analgesic or antitussive properties is about to be marketed, the government of the manufacturing country should at once examine the possibility of subjecting it provisionally to the control measures prescribed in the 1925 and 1931 conventions until the World Health Organisation, the ruling authority, has pronounced upon its liability to produce addiction.

The Board also refers to the fact that the Italian authorities did not seek to obtain a ruling under the 1931 Convention regarding the compound acetylethylmorphine, which was manufactured and issued as an ingredient in a preparation dispensed without a medical prescription. "Although the quantities manufactured were small, it is regrettable that this action was not taken." So far as the Board was aware, the only two countries manufacturing dextromeramide were Belgium and the Netherlands, but they did not place the drug under national control until eight months after the receipt of the Secretary-General's notification under the 1948 Convention. Therefore certain amounts of the drug were, throughout that period, free to move without usual controls and safeguards. The Board list a number of countries that have defaulted in their obligations, either by

delaying returns, or by ignoring requests for information.

The principal trends which emerge from the statistical information provided in the report are as follows:—

Raw opium.—Production in 1957 was 714 tons, which was less than the figure for the preceding year (781 tons) and very much less than the 867 tons constituting the annual average for the twelve years (1946–1957) following the Second World War. On the other hand, opium requirements increased as a result of the growing demand for codeine. In 1957, the amount of opium used for the manufacture of morphine (about 90 per cent. of which is subsequently converted into codeine) was 885 tons, as against 676 tons in 1956. To that must be added the 100 tons or so which are consumed annually in quasi-medical form in India and Pakistan, in non-medical form in Thailand, and in the form of medicinal preparations almost everywhere. Altogether, therefore, world licit utilisation approached the figure of 1,000 tons in 1957. Stocks at the end of 1957 represented roughly one year's requirements.

Coca leaves.—The quantity harvested in 1957, amounting to approximately 13,000 tons, came almost exclusively from South America, where about 98 per cent. of it was used for chewing. Only 248 tons were used in 1957 throughout the world for the extraction of cocaine.

#### **Record Production**

Morphine.—In 1957, production for the first time exceeded the 100-ton mark, being 109 tons, or 25 per cent. more than in 1956. In 1957, 17 tons, as against 14 tons in 1956, were extracted from poppy straw, the rest being obtained from opium. Ninety-four tons were used for the manufacture of codeine and 9 tons for that of other derivatives. Consumption of morphine as such amounted to only 4 tons.

CONSUMPTION OF NARCOTIC DRUGS IN THE UNITED KINGDOM AND IRELAND (per million inhabitants)

Table 1	United Kingdom	Irish Republic
	kilos	kilos
Morphine	13.53	4.16
Heroin	1.01	_
Codeine	191 • 48	25.65
Dionine	3.09	_
Cocaine	2.38	1 · 39
Pethidine	21.87	14.56
Methadone	1.6	0.35

Diacetylmorphine.—In 1957 three countries were manufacturing: the United Kingdom (47 kilos), France (17 kilos), and Belgium (11 kilos). Seven countries (against 18 in 1953) declared a consumption amounting to 1 kilo or more: the United Kingdom, 52 kilos; Belgium, 10 kilos; France, 7 kilos; Canada, 6 kilos; and Australia, Italy, and Portugal, each 1 kilo. "In several of them consumption will cease on exhaustion of the stocks."

Codeine.—As stated above, it is the

Codeine.—As stated above, it is the demand for codeine which determines the production of morphine. This demand increased considerably in 1957, and consequently production amounted to 97 tons, the consumption figure being 90 tons.

Cocaine.—Consumption declined still further and amounted to only 1,619 kilos in 1957 (it had still been very close to 2 tons in 1954).

Pethidine.—Consumption of pethidine rose to 14 tons in 1957. The United States produced 9.6 tons, the United Kingdom, 2.8 tons, and the Federal Republic of Germany, 1.2 tons. France, the Netherlands, Italy and the German Democratic Republic produced between 100 and 500 kilos each.

#### Methadone's Downward Trend

Methadone.—Consumption fell from 750 kilos in 1954 to 464 kilos in 1956 and remained at that level in 1957. Those fluctuations reflected variations in the consumption of the largest consumer—the United States, where it declined from 228 kilos to 141 kilos over the same period. A downward trend was noticeable in the United Kingdom and the Federal Republic of Germany which were the second and third largest consumer countries. Production reached its peak in 1954 (608 kilos), it declined to 468 kilos in 1955 and 200 kilos in 1956. Both figures were below those of consumption which doubtless accounted for the increase in production in 1957 to 573 kilos.

Other information taken from the report is given in tables 1-3.

United Kingdom Production of Narcotic Drugs in 1957

Table 3				kilos
Morphine				1,034
Heroin				47
Thebaine				313
Codeine				19,320
Dionine				652
Cocaine				171
Pethidine				2,836
Methadone				137

#### EXPORTS OF NARCOTIC DRUGS BY THE UNITED KINGDOM

Table 2	Ī	1953	1 1954	1955	1956	1957
		kilos	kilos	kilos	kilos	kilos
Morphine		267	312	364	275	302
Heroin		27	26	1	-	_
Thebaine		47	44	66	67	90
Codeine		3,303	5,399	5,437	8,237	9,119
Dionine		106	116	199	502	462
Cocaine		139	587	294	163	229
Pethidine		651	881	1,115	1,146	1,516
Methadone		_ 47	69	55	55	52



#### A FOUR-GENERATION BUSINESS EXPANDS

#### 110-year-old pharmacy becomes the most modern in Reading

FIRST prescription in the original prescription book, still in excellent preservation, of the pharmaceutical business of J. Powell & Son, St. Mary's Butts, Reading, bears the date 6/2/48. It was for "The Morphine Pills" (morphiæ (hydrochlor.) gr. ii; ext. hyoscyam, 5ii; pv. tragac. 3 ss. M.ft.pil. XXIV) and was priced at 1s. The "48" stands, of course, for 1848, and it is doubtful whether John Powell I, who founded the business, for a moment envisaged that the pharmacy would survive into the twentieth century and even, after a run of 110 years, be still in the family and undergoing a transformation that betokens tremendous confidence in the future

The changes, quadrupling the size of the shop and making it the most modern pharmacy in Reading as to layout and lighting, have been completed for only a few weeks. A next-door shop was brought into the scheme, and a single front given to the two, with a central entrance. The change involved major structural alterations, during which business had to go on as usual—or as near to it as was possible in the circumstances.

The brilliance of the lighting in shop and in windows at once impresses the customer or passer-by. Altogether 105 5-ft. fluorescent tubes are in use, none of them directly visible, since all are behind "egg-box" crates, whether in window tops or in ceiling. Over the counters the tubes alternate with directional ceiling beam lights.

The problem of making use of the entire frontage of the shop for window display while maintaining separate access to the rear of the premises for goods delivery has been ingeniously solved—with a gain of still more display windows. The method has been to set the front windows one on either side of an open lobby, which branches out right and left behind a pair of each. At the rear of the lobby are other display windows set at an angle to the line of the frontage so as to funnel customers through the shop doorways between them. At the right of the lobby

is another door giving access to a passage to the rear. Of the street-front windows the central parts (those with lobby behind them) are open-backed. The remainder have orthodox window backs (except that the wooden doors go down to ground level), but a novel "subfacia" within the window carrying the name J. Powell & Son. The name is illuminated from behind in a strip that separates the part above nor-mal "deck-height" for shop windows from a lower portion that carries the display of goods almost down to pavement level. At the extreme left a photographic-goods display is separated off by a substantial partition from its neighbour. Above the facia is an orange-illuminated clock in the shape of a 5-ft. carboy (see p. 79).

Passing through the door into the shop, one is faced by an island counter

—essentially a rectangle of showcases with chamfered corners. From the island counter are sold cosmetics and toiletries. A feature of the glass showcase front is that the lighting of the case is from the rear base, giving a sort of glow from behind that helps to glamorise the stock on display. Along the right-hand and left-hand walls of the shop are counters with goods displayed in open trays above. No goods are to be seen below countertop level for the counter fronts are of wood. The sacrifice of stock space in that way is deliberate. The purpose is to direct the customer's eye unerringly to the goods on the counter. For the same reason the ceiling over the counters is lowered into a "bulkhead." Inset into the bulkhead the lamps (of both kinds) give brilliant illumination at a cost that would, under the square-of-



Drug counter. Behind it are mahogany fixtures from the "old" pharmacy, with modern parts (such as the word "Chemists") matched-in. Lighting is from flush panels in the ceiling. Above the title is shown a view of the facia, entrance and windows. The two-deck display is well seen. The windows on either side of the doors extend behind the front windows to an extent indicated by the "back-less" part of the front windows.

Island showcase and counter for cosmetics and toilet sundries. Note cyclorama - style lighting of the show-case, At rear: Main case. At rear: Main toilet counter. Immedi-ately above the illuminated wall there comes forward a " bulkhead " from whose undersurface the goods on the counter are given the fullest lighting most economi-

the-distance for intensity of illumination, be far greater if the lamps were at ceiling height. Behind the counters are glassfronted wall showcases each with its illuminated label -" Photographic,"
Baby Requisites," "Prescriptions,"
"Medical," "Optical," "Surgical." Along each length of wall case, bays lined with peg-

board alternate with bays fitted with glass shelves.

Everything so far described is modern in plan and style. The counters and showcases, which are in "ripple ash," are a superb example of the cabinet-maker's craft, carried out, as was the whole of the shopfitting work, by Samuel Elliott & Sons (Reading), Ltd., Reading.

But not everything is modern. Across the rear of the shop shelves and nests of drawers from the original phar-macy, some of them 200 years old,



some with glass knobs through which gleams a gold-leaf backing, perpetuate an outstanding specimen of much earlier craftsmanship. A quaint survival in the type of business done is ear piercing, a speciality that brings in an astonishing number of customers.

Already there has been a sharp increase in number of customers and volume of sales, and there is every prospect that the confidence of the family by whom the changes were en-gineered will be more than substantiated.

#### SHOPFITTING NOTES

Prefabricated Shelving. — Claimed "the only shelving of its kind in Britain," Lundia prefabricated wooden shelving (Remploy, Ltd., 25 Buckingham Gate, London, S.W.1) is easily erected and "so adaptable as to fit any wall space within 2 in." It is just as easily dismantled, re-erected, or modified as to shelf height. The shelving is suitable for all storage purposes and has a loading capacity of 500 lb. per shelf. Two types are available: standard (for general storage purposes) made from white wood with clear hemlock uprights, and library (special hard-wood units made in West African mahogany) suitable for use in shops.

A New Stock-marking System. GripsOn, a new self-adhesive stockmarking system has been introduced by Adaptasign Display Products, 129
Hammersmith Road, London, W.14.
Consisting of black oblong moulded interlocking units (\frac{3}{4}\) in. high), heat-embossed with white letters and numerals, the system is claimed simple to use. By adding unit to unit any combination of letters and numbers may be made up, and the units grip tightly to any dust-free surface. No nails, screws or glue are required. A double-sided adhesive tape is applied to the backs of the units, and when the protective of the units, and when the protective tapes have been removed the sign is

ready for fixing. Though it can remain in place permanently, the sign may, if desired, be removed and placed elsewhere. It leaves no trace, after removal, and does not damage finished surfaces such as varnish, paint, etc. GripsOn units are washable and hard-wearing; they "should last indefinitely." GripsOn is available in sets of 270 units, including space pieces, plus thirty-six front- and thirty-six endpieces and a 10-ft, coil of special double-sided adhesive tape. Sets consist of letters or numbers (not both). Spare characters and additional lengths of tape are available.

Versatile Display Stands. — Domain Products, Ltd., Domain Works, Barnby Street, London, N.W.1, draw attention to their new range of Domain display stands. The versatility of the stands enables them to be used on the floor, counter, or wall and may be fitted on to peg-board. They can be extended in length simply by adding extension units. The stands are available in 2- and 3-tier form with shelf size from 6 x 12 in. to 9 x 18 in. and varying in height from 18 to 36 in. They are finished in durable stove enamel in a range of colours or chromium plated (frames only). The ends of the frames are fitted with resilient ferrules to prevent damage to polished surfaces.

#### INFECTIONS IN WARDS

#### Antibiotic restrictions urged

THE control of sources of infection may be hindered by widespread or indiscriminate use of antibiotics, and clinicians should be prepared to consider voluntary restrictions on the use of those drugs. That is one of the recommendations of the subcommittee on staphylococcal infections in hospitals appointed by the Standing Medical Advisory Committee of the Central Health Services Council. The Committee's report (H.M. Stationery Office, price 2s. 6d.) consists of twenty-nine pages under the following headings:-Introduction; discovering and recording cases of infection; sources of infection; modes of spread; principles of prevention; practical details of some preventive measures; control of outbreaks; and administrative considerations.

The report was prepared to draw attention to the prevalence of staphy-lococcal disease in hospitals, to consider its prevention and control, and to indicate problems that need further study. It states that the use of antibiotics either for treatment or prophylaxis is by itself unreliable, the control of staphylococcal disease depending largely on the application of aseptic methods. Many strains of staphylococci can withstand the action of an antibiotic, and experience has shown that the continued use of an antibiotic in a hospital community may be accompanied by the emergence of resistant strains. The subcommittee considers that the extent of the problem of staphylococcal infection in a hospital may be overlooked if there is no adequate system of recording hospital in-fections or if appropriate facilities for bacterial investigation are lacking. Continual vigilance was needed to detect clinical signs of infection in patients and staff, and there should be an adequate follow-up of patients after they have been discharged from hos-Clinicians should consider the advisability of keeping of certain antibiotics (e.g., erythromycin) in reserve for the treatment of patients infected by organisms resistant to the drugs more commonly used; of limiting the authority to prescribe those reserved antibiotics except in emergency to senior members of the medical staff; and of withholding the administration of such antibiotics until the results of sensitivity tests are known.

Another voluntary restriction that clinicians should be prepared to consider is to abandon the widespread use of antibiotics for non-specific prophylaxis. The treatment of healthy nasal-carriers among the hospital staff is usually unnecessary, except in the presence of an outbreak. Attention is drawn, however, to the advantages for that purpose of antibiotics such as tyrothricin, neomycin, bacitracin, or poly-myxin, which is not normally used systemically for the treatment of serious sepsis, and of antibacterial substances, such as propamidines or the diguanides, designed primarily for external appli-cation. Favourable results have been reported from the use of neomycinbacitracin ointment and of chlorhexidine with neomycin or bacitracin.

## Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

#### Sale or Return

SIR,—I was most interested to read your leading article on purchase tax in the current issue of THE CHEMIST AND DRUGGIST (January 17, p. 65) and I thought you might be interested to learn that this company has agreed a scheme with the Customs and Excise authorities whereby its products may be bought by retail chemists on a sale-orreturn basis so that they are completely covered in the event of any reduction in purchase tax. The scheme applies to all our products regardless of their price and it operates with the minimum of trouble to the retailer. In fact, we are doing all the work! Our representatives will be pleased to give any retailers details of the scheme and we shall be handling on this sale-or-return basis any orders sent to us direct by retailers between now and the Budget.
TALBOT DAVENPORT, Director,

SAVILLE PERFUMERY, LTD., Watford, Herts

SIR,—We have been particularly interested in the leading article in your issue of January 17 relating to purchase tax, and subscribe in full to the views expressed therein. It is indeed a matter of regret that regularly each year re-tailers have this "sword of Damocles" hanging over them, certainly during the pre-Budget period; and the disruption in trading which can result, and often does, is considerable. Perhaps it is not generally understood that any manufacturer, whether pharmaceutical or otherwise, dealing with members of the retail trade, may prepare a sale-or-return scheme within the requirements of the Customs and Excise authorities so as to offset a purchase-tax loss. In this respect, we, as manufacturers, have always understood the difficulties of our retailer friends, and during recent years, when the possibility of a tax reduction has been mooted, have prepared an S.O.R. scheme which has given our customers complete protection against any detrimental change. This has operated most successfully and has been readily accepted by a high percentage of direct buyers. Although the additional burden to us has been heavy, we have been quite happy to carry it, in the mutual interest. Should there be no early announcement on purchase tax by the Chancellor, we shall be repeat-ing our offer, and this year anticipate an even greater response.

CHAS. H. PHILLIPS CHEMICAL CO., LTD., C. MALBURN, London, W.3

#### N.H.S. Doctors and Patients

Sir,—To be of real value, any serious survey of the health services of the country must have pharmacists represented among those who make it. Committees of doctors, government officials, clerks to Executive Councils, and civil servants may quote statistics, but as to information about the day-to-day working and human relations of the service the pharmacist can make the greatest

contribution. From an experience extending back to the introduction of National Health Insurance in 1912, I can state that many of the poorer patients are seriously perturbed about the whole modern set-up. The feeling is that the attitude of general practitioners has deteriorated over the years. Why, too, should there be waiting lists for admission to the hospitals, when private patients can just walk in to any paid bed in a private block within a few days? Any pharmacist who has worked in different types of business in different parts of the country knows well the great differences in amounts the service costs according to whether the district is working-class or residen-

ELDERLY PHARMACIST

#### **Education and Economics**

SIR,—I beg permission to reply to your correspondents Messrs. C. H. Patrick (C. & D., January 17, p. 60) and G. W. Scaddan (C. & D., January 10, p. 35). First of all, I wish to assure Mr. Patrick that I am not an employee. but have been a proprietor pharmacist for the past ten years. Like Mr. Patrick I value independence, and prefer to work hard on my own behalf rather than for an employer, hence the reason I am self-employed. Both gentlemen stress the moral issue involved if a deliberate shortage of pharmacists were to be created. I doubt if such an issue would arise, but is it any more immoral to create a shortage of pharmacists to ensure better conditions than it is to create a surplus so as to ensure a lowering of remuneration? It is up to all pharmacists, whatever their position, to help themselves and take advantage of every opportunity which presents itself to improve their status, as they can expect no help from anyone but them-selves. Apparently Mr. Scaddan considers that the employee pharmacist is overpaid, but I disagree entirely. They are paid no more than their worth. Mr. Scaddan raises an interesting point regarding the American-type drug store. If that type of store becomes widespread, and the dissolution of the C.F. movement has an adverse effect upon us, then it is only logical that fewer pharmacists will be required if we are to maintain an adequate standard of living. However, there is no cause for immediate alarm for the gentlemen, as there is no shortage of pharmacists at the moment. Indeed there will be a surplus when National Service comes to an end. It will be in the distant future that the full effect of the Society's educational policy is felt, but I am convinced that the correct policy is being pursued, and that it will be to the ultimate benefit of all pharmacists, and not merely of one section.

#### Not Unchallenged

L. W.

SIR,—I am sorry to see that the long letter concerning the Hall Dispensers' Association (C. & D., January 3, p. 12)

contains so many misstatements and misconceptions. Briefly: (a) Pharmacists have no authority over the Society of Apothecaries; (b) the Court of that Society is alone responsible for the 1956 syllabus, which is aimed at raising and not lowering the standard of certificated assistants in dispensing; (c) although no specific examination mentioned, the entrance level for registration as a student is higher than ever before; (d) a very stiff teaching sylla-bus of academic training has been issued to the recognised teaching colleges (I think some of that syllabus might be a grim hurdle for many "experienced" members); although chemistry as a separate subject is now out of the syllabus, that does not mean that it is now regarded as unnecessary. On the contrary, the airy-fairy gas laws and the contact process of making sulphuric acid, with odd snippets of this and that has been replaced (in my College at least) by a much more realistic training based on the requirements of the understanding of complex modern drugs. It must be realised that the legal position of assistants in charge is untenable in present conditions. Whether we like it or not, registered pharmacists are the only legally authorised dealers in poisons and Dangerous Drugs. Lastly, the Society of Apothecaries is still the only legally authorised examining body for assistants in dispensing, and I would not like to be too dogmatic as to the jurisdiction of the Society over the holders of the certificate. No one is more anxious than I to see the certificated dispensers accorded full professional status, within the limits of their proper responsibilities and the law. But I am afraid that the inaccuracies contained in your corres-pondent's letter will do more harm than good, and for that reason cannot be allowed to pass unchallenged.

LESLIE G. LUKER,

London, W.2

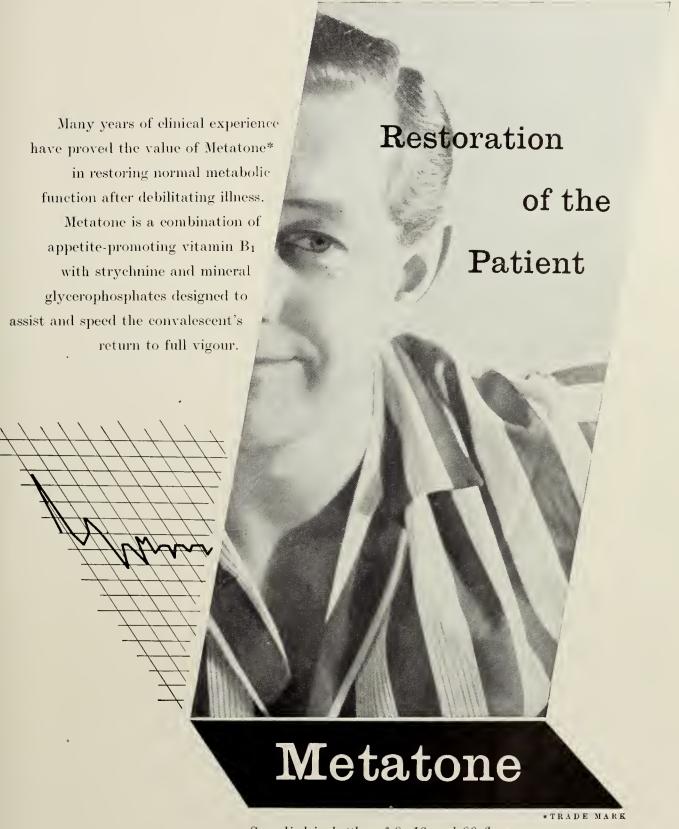
High Praise

SIR,-To hear the editor of our favourite pharmaceutical publication describe the whys and wherefores, ifs, buts and maybes of his craft must have been a treat to his audience at Romford (see C. & D., January 17. p. 62). Let's hope he repeats it.\* The C. & D. is always accurate in its statements, decidedly educational and fully up-to-theminute with its notes on all things new in pharmaceutical circles. As a regular reader for over fifty years and with experience in many countries, I have found the C. & D. the best publication of all within the field of pharmacy. I had occasion recently to turn up some C. & D.s of the early century, and found the contents then just as readable as now, though each editor since then seems to have surpassed his predecessor "thank you" to you and your staff (pharmacists, journalists and printers).

R. C. DAVIES-JOHNS,
Chilwell, Notts

\* No. Let's hope the doesn't—EDITOR

\* No. Let's hope he doesn't-EDITOR.

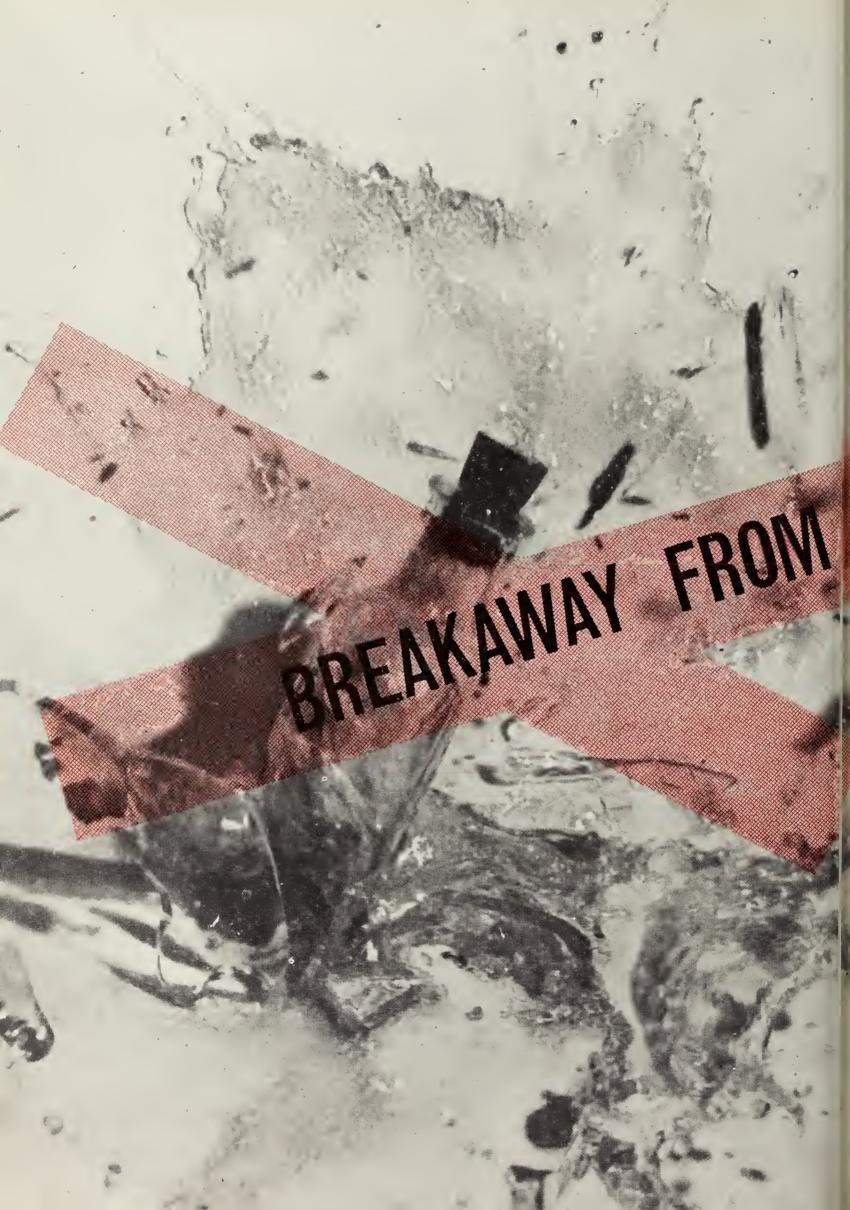


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#### Addiction and the Ethics of Trade

In this world where international bickering is part of the day-to-day scene, criticism of a government by an international authority is apt to be overlooked, but the strictures upon the West German Government by the Central Opium Board must surely cause pharmacists in all countries to ponder. That it should be considered necessary to state that commercial interests must yield to considerations of public health will cause a raising of eyebrows, if no more, in the mind of any pharmaceutical reader of the report, wherever he may be. It may be assumed that the question will be asked: "Could it and does it happen here?" It may be apposite, therefore, to consider the arrangements for implementing in the United Kingdom international agreements on narcotics control. Until 1950 it was left to the vigilance of government departments to keep an eye on the manufacturers but, with the growing complexity of synthetic chemistry and the amazing rapidity with which research workers have produced endless molecular rearrangements to obtain often only marginal therapeutic advantages, it was suggested that the manufacturers of analgesic drugs should voluntarily come to an arrangement whereby those responsible for the health of the nation and the control of Dangerous Drugs should learn of any new developments as early as possible. That suggestion was not easy to translate into practice. Most pharmaceutical houses that conduct expensive research are only able to recoup themselves by means of patents, and the leakage of any information regarding a promising new drug before adequate patent cover has been arranged might allow foreign competitors to step in. In some countries such "pirates" could take steps that would prevent the original discoverer from ever being able to enter a market. However, in 1950 the Association of British Chemical Manufacturers, the Association of British Pharmaceutical Industry and manufacturers concerned, together with representatives of the Home Office, drew up an agreement whereby the manufacturers undertook to inform the government department—in confidence—of the results of their research work into analgesic and similar preparations, the information to be provided before the stage at which clinical trials commenced. In that way the manufacturers could continue their research work unhampered and the Home Office could retain a sort of remote control without the necessity of having to institute tighter all-embracing regulations. After clinical trials have been in progress for at least a year, the

manufacturer, if he wishes to proceed with the manufacture and sale of the drug, must provide the Home Office with all the relevant information about it, including a report on the clinical trials and such evidence as is available upon its addiction-producing properties. The manufacturer undertakes that, until the decision of the Home Office is received, he will not export commercially the substance concerned; will not market the substance in this country except after agreement with the Home Office; and will use discretion in the issue of supplies for clinical trials.

In the event that a drug is found to be addictionproducing, the manufacturer must voluntarily submit to such control as is recommended by the Home Office.

That agreed machinery, of course, only covers drugs that are in a similar category to the synthetic narcotic drugs such as morphine, pethidine and methadone. There will always arise problems caused by the misuse of drugs other than addiction-producing drugs. Many of these problems will have to be solved at the counter by the application of the pharmacist's professional conscience.

#### Possible Lessons from a Frank Report

To have invited an authority to prepare a report and then find it necessary to challenge one of its fundamental points (see p. 87) must have been a difficult situation for the Council of the British Medical Association to face, and everybody, whatever his views, may feel some sympathy for the association in the matter.

However, the dilemma only throws up the strongly divergent views that can be held about aspects of the National Health Service. Whilst the Newsam report is published as the personal opinion of its author, pharmacists, like doctors, should give it some consideration, if only because it has been prepared by a "highly placed retired civil servant with wide administrative experience." As the British Medical Journal states in a leader, "Its value lies in the warning . . . by a highly able civil servant who, we may be confident, reflects the mind of the civil servants in the Ministry of Health." One point to note in Sir Frank's report is his statement: "Though nobody can claim to speak for the public, the impression gained is that it is no longer interested in the quarrel between the doctors and the Government; which has lasted for ten years, and would not easily forgive a concerted effort to wreck the National Health Service or any vital part of it." It is indeed essential to ensure, when dealing with the Government, or the Civil Service, that an enlightened public would back the point on which action might be taken. Those in Parliament, or in the more permanent offices of the Civil Service, are loath to place themselves on the wrong side of public opinion. In the fullness of one's enthusiasm for some ideal it is often fatally easy to believe that all around one must be thinking likewise, and that comment by Sir Frank is a salutary one not only to doctors in general practice but also to pharmacists, who have themselves had a somewhat unhappy time in the public eye in recent months.

There is no doubt that the introduction of the National Health Service brought with it a changed outlook among doctors' patients. No longer is doctoring, to use Sir Frank's phrase, "an act of grace." Today it is universally considered a right—for which large sums have been paid. Members of the public therefore rightly expect

efficiency and service when getting and presenting for dispensing their EC10 forms.

We must admit to being a little puzzled by Sir Frank's statement that "Nowadays the drug companies tell the people what is good for them and the people now think that they know exactly what is good for them and insist on having it for nothing." Surely Sir Frank knew, or discovered during his inquiries, that drugs and preparations advertised to the public are not prescribed under the National Health Service. Surely instead of "drug companies" he should have held responsible the "garbled lay Press reports of life-saving drugs."

His suggestion that there should be a working party concerned with matters of long-term medical policy strikes us as one that might well be considered worthy of adoption also for pharmacy. Sir Frank visualises "a joint standing committee . . . whose function it would be to review policy continuously, with powers to pioneer and foster promising lines of development."

Such a committee, provided it maintained its virility and independence, could be of value in guiding, and sometimes rectifying at the right level, the ideas that the Treasury and Parliament appear to hold concerning the pharmacist, his training and responsibilities. Given the enthusiasm, such a body might even convince some of those who have been active in denigrating pharmacy that the pharmacist's qualification, which is hardly won, is necessary to protect the public and should be paid for.

#### Industry and Unemployment

PERTURBED by the growing pockets of unemployment throughout Britain, the Government passed the Distribution of Industry (Industrial Finance) Act, 1958, about six months ago. That Act gave the Treasury power to make loans and/or grants for projects likely to provide more work in places where a high rate of unemployment was expected to continue. A list of such places was recently circulated to about 50,000 managing directors. With the list went a letter from the Parliamentary Secretary to the Board of Trade (Mr. J. Rodgers) urging directors contemplating factory development to talk to the regional controller so soon as possible and not to wait until plans were complete before doing so. The "carrot" (Mr. Rodger's own description of the inducements offered) takes the form of loans at a rate of interest below the market rate, plus grants in certain circumstances. The Government would be prepared to build a factory to the company's own specifications and to lease or sell it to the occupier over a period of years. With the "carrot" there would also be a "stick"greater difficulty in obtaining sanction to build or expand in other areas such as London and some parts of the Midlands. So far there has been no rush of applications for grants or loans; the Development Areas Treasury Advisory Committee, which investigates the applications, has received only seventy and has passed only sixteen. Twenty-seven are still being considered, and the remainder have been rejected.

Among the areas qualifying for the "carrot" treatment are Ulverston, Blackburn, Merseyside, Hull and Aberdeen, all of which have an established pharmaceuticals industry. Expansion by existing companies in those and the other listed areas will presumably be comparatively easy now. In fact it looks as if those companies are to be the Committee's best "customers" for, to date, three-quarters of the sanctioned projects are for companies already resident in the areas.

#### Onward from Galen

A CURRENT CAUSERIE

DURING January the Haffkine Institute, Bombay, celebrates sixty years of scrvice in medical research. Waldemar Mordecai Wolff Haffkine (1860-1930), who developed the first successful cholera vaccine in 1892, was sent by the government of India in October 1896 to Bombay, where plague had broken out. In a one-room laboratory at Grant Medical College he prepared a prophylactic vaccine from pure cultures of the plague microbe. In January 1897 Haffkine inoculated himself and proved its harmlessness, and when an endemic of the disease occurred that same month in the Byculla "house of correction," he used his vaccine successfully, on a large scale. Of 172 untreated subjects, twelve contracted the disease and six died. Among the 148 treated persons two developed plague but none died. In February 1898 the Aga Khan placed at Hasskine's disposal a large house, Khushru Lodge. Orders for the vaccine poured in and the laboratory became an imperial concern. Eventually the old Government House at Parel was formally opened as the Haffkine Institute on August 10, 1899, by the then Governor of Bombay, Lord Sandhurst.

\*

It is an event to be able to congratulate a trade association on a 50 per cent, increase in membership. That happened recently to the National Rose Hip Products Association by the accretion of Optrex, Ltd., who recently started manufacture of rose-hip syrup from hips gathered (as in Britain by volunteer collectors) in Northern Ireland. The gathered hips are treated at the company's factory at Glenarm, co. Antrim, and the concentrate trans-shipped to England for conversion into the syrup. When the Association met in London recently for its annual luncheon, Mr. H. M. Seward read out a letter the company had received from one of the collectors whose attention had been politely drawn to a stone which, unintentionally, had given an incorrect reading to the weight of hips returned by the collector. The letter was in the following terms:—

SIR,—I was very distressed to receive your undated letter and the enclosed foreign body. My hips are generally supposed to be the finest in Northern Ireland. The colour is good, the skin smooth and the shape perfect—in fact this is the first time anyone has given them anything but praise. I am returning the F.B., and the next time you are in my district I should be glad if you will call when I will personally put forward my suggestion about what you should do with it.

At the luncheon Mr. N. H. Martin (Paines & Byrne, Ltd.) the newly elected president of the Association, revealed that the 1958 rose-hip crop in Britain had reached the weight of 485 tons, despite bad weather and the counterclaims on the collectors' interest of potato harvesting. Sir Hugh Linstead, who also spoke at the luncheon, warned his hearers that they should take note of possible competition in rose-hip production from the prevalent use of red hula hoops, and Messrs. S. Day and A. R. G. Chamings made similarly entertaining allusions to the essential fact that the Association, though small, continues to make valuable contributions to the home and export trade of the country. The whimsical (or mischievous ?) suggestion might be made that the Association as at present constituted could well form a platform on which political differences between the Republic of Ireland and the Six Counties and between each of them and Great Britain might be ventilated and resolved, for Messrs. Optrex are collecting their hips in Northern Ireland and have a factory there; Paines & Byrne, Ltd., have at least sentimental associations with some of the twenty-six counties; and Scott & Turner, Ltd., might be described as "English with some American associations." Three hips would be followed by a hooray if ever those inter-territorial differences ceased to exist.

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#### A VISIT TO THE SOVIET UNION

#### Impressions of Russian medicine and pharmacy

T. C. THOMAS, M.P.S.

RECENTLY visited the Soviet Union with four other colleagues—two doctors, a dentist and an optician—to study Soviet health services. During a period of eighteen days we saw and visited about twenty-six institutions, including hospitals, ambulance services, polyclinics, sanatoria, pharmacies, dental and ophthalmic centres, a biological research institute, a blood-transfusion centre, etc., the various departments in the Ministry of Health in Leningrad, Stalingrad, Sochi and at our headquarters in Moscow. We met and spoke to Soviet health workers at meetings organised by our hosts—the Medical Workers' Trade Union, to whom we explained our own health services.

During our leisure we were their guests at the Bolshoi Theatre and Obratzov Puppet Theatre and saw the renowned Popov with the Moscow Circus. We were present also on May Day in the Red Square, and saw football in the Lenin Stadium, Moscow.

#### Pharmaceutical Services

The task allotted to me by my colleagues was to look at the pharmaceutical section of the health service, at retail trading and dispensing, at the hospital pharmaceutical departments, and at manufacturing pharmacy, and to observe the structure and organisation of pharmacy in the Union and of Soviet pharmaceutical industry. A review of the work and organisation of the many institutes, hospitals, polyclinics, etc., from a general aspect would no doubt be of interest, but it would make this article too lengthy,

so I shall confine my remarks to pharmacy.

The pharmaceutical department in the Ministry of Health is responsible for the formulation of policy, acts as an advisory body, and controls the pharmaceutical activities throughout the Union. The department controls and finances pharmacies, and determines the structure and organisation of the sixteen Republican Pharmaceutical Boards which are the responsible bodies for the day-to-day running of pharmacy, and to which, owing to the vastness of the Soviet Union, are delegated the task of seeing that the Union legislative control of pharmacy is carried out, that ethical and professional standards are maintained, and the required drugs and chemicals provided.

The all-Union pharmaceutical department co-operates with the other health departments and is responsible to the functional head: the Minister of Health. All-Union conferences and congresses are the administrative responsibility of the department, as are all-Union publications, etc. The Republican Pharmaceutical Boards act within each respective Republic, so that there is similarity of action on phar-

maceutical matters throughout the Union.

The administrative Council of the all-Union Pharmaceutical Board meets annually to determine the "on-cost" or 'profit" to be placed on all the pharmaceutical and chemical products supplied to the health service. Its counterpart in the Republics place that oncost on all their products and assume responsibility for collecting it throughout their pharmacies, etc. Thus the same price rules throughout the Union, despite the huge distances from factory to distribution centre, which have to bear part of the transport cost, with the result that smaller "profits" are earned by some pharmacies than by others, though the whole of the moneys go into the Republican State Banks and are used in pharmacy. In the current year the oncost on drugs, etc., is 30 per cent., on surgical dressings 4 per cent., and on perfumery, etc., 10 per cent. Those are examples of "oncosting" on manufactured and other products in the Soviet Union, and partly explain the great differences in household and consumer product prices, many of which appear to be much dearer than those in this country. The exchange rate for the rouble also has some bearing on that aspect.

There are several specific subsections in the Republican Pharmaceutical Board set-up, for example:—

(a) Production department linked to

- (b) Supply department. Together the two sections produce and supply the goods required for the retail, hospital and manufacturing outlets. The production department provides the galenicals, etc., while the State chemical industry provides the main raw materials and chemicals.
- (c) Development department. The department looks at costs and returns of the products supplied, at the labour requirements, and into the extension of the service.
- (d) Building department, which provides new and maintains existing pharmacies and hospital pharmaceutical departments and polyclinics.
- (e) Finance department, which prepares budgets and controls the finances and moneys in the pharmacy service.
- (f) A scientific council in the all-Union and Republican Pharmaceutical Boards, which acts under the aegis of the Soviet Academy of Sciences, by which the research undertaken, etc., is determined. The council meets biennially as an all-Union body and annually under Republican auspices. It convenes conferences and congresses and is the information centre.
- (g) Higher education. Although the provision of pharmaceutical education, the examination and registration of pharmacists is the responsibility of the all-Union and Republican Ministers of Higher Education, the pharmaceutical Board assists in providing facilities for instruction in examinations and in registration. The curriculum is the same throughout the Union. Each Republic recognises all graduates and has first claim on the services of its own personnel but its surplus graduates are free to go to other areas where their services may be required.
- (h) Other sections, such as information and publications, personnel, administrative, etc.

Elements in the Soviet Health Service that distinguish it from the British National Health Service are a vast Institute of Organisation and Medical History, an even greater chain of Institutes of Health Education throughout the Union, and more strikingly, the absence of advertising and propaganda for specific remedies or of prepacked medicines, many of which exist.

#### Soviet Retail Pharmacies

The retail dispensing pharmacy—the Apteka—is similar to the Apteke in Sweden and Finland in layout, design and appearance, except that many examples require modernising and rehabilitating. Among the medicines sold are 100,000-unit penicillin tablets prepacked in tubes, the sulphonamides, aspirin, etc.; a little perfumery and few cosmetics; herbs, surgical requirements, and, in the central Apteka, a dispensing department for spectacles. That department concerns itself with supplying the lenses prescribed, putting them in the frame chosen by the client (no fitting or facial adjustment or appearance factors are included in the dispensing service). The result, we found, was that the average Russian wore unattractive spectacles.

The sales service in the Apteka was limited, with too few staff available. There were queues in all shops, due not to shortage of goods but to lack of sales staff. The factory and other large employing organisations offer too many attractions—sport, cultural, educational, organisational advantages, etc., which the small shop units cannot give. Hours are long (from 9 a.m. to 11 p.m. and all-night in the central aptekas) with the existence of shift systems. The dispensing

departments were well-stocked with an ever-increasing flow of prepacked ethicals from the State drug and chemical factories. Many bulk mixtures and solutions, etc., are analysed in the dispensary still (we understand that that has been traditional in Soviet pharmacy and is not yet discontinued) despite the rigid controls that now exist in the State factory. Medicines are paid for in the Soviet Union, the prices being based on cost of the ingredients and containers. No other costs were added. On inquiry why those eharges were made on drugs and spectacles we were told that the imposition was to reduce the costs to the State and to reduce medieine-taking and prevent abuse: the charges would be withdrawn when finances allowed. No exemptions existed in the imposition of the charges, since their old people are provided for much more generously than our own old-age and dependent persons, or so we were given to understand.

The standards of professional techniques and ethical maintenance appeared to us to be well up to western attainments. Information on new drugs, etc., was received regularly, and the pharmaceutical local organisations meet two-monthly and also jointly with other health workers at the same intervals. In the aptekas I visited I did not meet any men, and only one male student in Moscow. Pharmacy is almost exclusively female.

Pharmaceutical service in the remote areas of the Union is carried out by the Feldsher—from "field surgeon" of the old days—who obtains drugs and medicines from the nearest town or village or by post, etc.; again the moneys received are paid into the State banks. Home nursing, maternity and child-care, crude doctoring and dentistry, etc., are all practised by that same feldsher and therefore, until the Soviet Union becomes completely urbanised, if ever, the feldsher system will persist. The authorities offer special inducements (20–50 per cent. more in salary, free houses, board and lodging, etc.) to their professional men and women, teachers, technologists, doctors, pharmaeists, nurses, dentists, etc., to go to those areas to raise the standards of services and to provide hospitalisation and polyclinic services. Those inducements were slowly having their effect.

#### Manufactured Medicines

The pharmaceutical industry was providing more and more new products for its aptckas, hospitals and polyclinics. The Biological Research Institute we visited in Moscow concerned itself with new antibiotics. The results of its work were remitted to the industry for exploitation and formulation. Packaging of the products, however, was not as attractive or as "extravagant" as packaging in Britain, since there is no advertising or display of the products. The form of packaging is practical and utilitarian. Most of the shop windows of the apteka are empty, and in view of the excellence of the health education posters, etc., we were surprised that not more use was made of those shop windows for display of the posters. We made that comment to our Russian hosts before leaving. Unfortunately it was not possible to visit any of the State drug or chemical factories, though we did visit the polyclinics at two factories (a shoe and a ball-bearing factories) owing to lack of time and the many items of interest which were in our itinerary. The machinery and equipment we saw were either Russian, or of Eastern German or of Czechoslovak manufacture, though we did see in one of the laboratories a British binocular microscope of recent manufacture. The manufacture of their own polio vaccine was mentioned in the interview with the deputy Minister of Health, who described the steps taken to get the "know how" from the United States, Sweden, etc., before embarking on their own research into Salk vaccine, and how the State industry was geared to production. It is estimated that the Union will be able to produce material surplus to its own requirements by 1959 for export to neighbours and Far Eastern countries. The deputy Minister was proud of that achievement. With him was the head of the professional section of the pharmaceutical department,

though the material mentioned earlier in this article was provided by the administrative head of the pharmaceutical department. As with the various Ministries in Britain, many of the departments of State in Moscow are spread over the city. The Kremlin could not house them all.

Information on new products is sent out by the State manufacturing houses to doctors, pharmacists, hospitals and polyclinics. The requirements for the chemical and drug industry are ascertained from the Republican Health Ministries and remitted to the all-Union Ministry of Industry, which in turn allocates the raw materials, the capital and factory space, etc., throughout the Union in full consultation with Republican Ministries of Industry. The Soviet Union is practically self-supporting for drug and chemical raw materials, and, since the present five-year plan is directed at an increase in consumer goods (it includes an increase in new medicinal products).

I had hoped to look at a perfumery and cosmetics factory during our visit but was unable to do so. However, perfumery is still a much-uscd adjunct to the toilet of Soviet women, and the use of eye cosmetics appears on the increase. Most sales are made through the hairdressing and toilet salon, with only a few pharmacies featuring perfumery which could also be purchased in the hotels.

Hospital pharmaceutical departments cater for in-patients only, with layout and services similar to those of the retail pharmacy. Analytical work was carried out, and ampoule and syringe services, etc., were provided. Again time did not permit of a more exhaustive study.

#### **Polyclinics**

The polyclinics—a feature of eastern-European health services—are the media through which general practitioner medical and dental services are available to the Soviet citizen. Two kinds—industrial and general polyclinics—deal as indicated with the worker in the factory and office, and with the family. The school child up to the age of sixteen is the responsibility of the pædiatric clinic, the healthy child in one type of clinic and the siek child segregated in another clinic. In the two factory polyclinics visited there were staffs of ninety-five and seventy-five full-time medical and dental officers respectively—a third of the number of medical officers would deal with the worker in the factory, a third would visit the home, and the remainder would be attending hospital post-graduate courses and doing hospital medicine and surgery. Thus the family doctor-and-patient relationship, which exists in this and other countries where private and semi-national health services are available, has no place in the Soviet health services. The patient is, as in our own hospital services, under the care of a team and not the responsibility of one general practitioner. The polyclinic I visited in Moscow gave no pharmaceutical service. Patients were given their prescriptions to be dispensed at their nearest apteka. In Leningrad, the shoe-factory polyclinic also gave no pharmaceutical service.

Perhaps the outstanding feature of the visit was the information gained about the Medical Workers' Union activities, which in our view determine largely the set-up in the health services in the Soviet Union, since all categories of health workers are compelled to be members. The Union is able to offer the professional advice and experience which the respective Ministries require in the running of the existing services and in the planning of the development of the services. Members of the Union are in the Ministries and Governments, in the local Town and City Halls, as representatives of the Soviet people by election. They are heads of State departments, of hospitals, of aptekas, of polyclinics, of research and other institutes, etc., and collectively their influence on the Soviet health services is the strongest, democratically imposed through the trade union.

A cine film was taken of many of the places of interest we visited, and I would be happy to show it and discuss other aspects of the health services if invited by branches of the Pharmaceutical Society.

#### PHARMACEUTICAL SOCIETY OF IRELAND

#### Monthly meeting of Council

HE Council of the Pharmaceutical Society of Ireland regretfully accepted at its January meeting, held on January 13, the resignation from the Council of Mr. Anthony A. Toher, Sligo. To fill the vacancy the Council co-opted Mr. John P. O'Donnell, Charlestown, co. Mayo.

Mr. Hugh P. Corrigan (president) was in the chair and there were also present Messrs. M. Costello, T. R. Miller, T. B. O'Sullivan, C. J. Cremen, J. Gleeson, K. Banks, F. J. Robinson, G. C. O'Neill, M. Broderick, J. J. O'Regan, J. P. Kissane, and M. L. Cashman. Mr. J. G. Coleman (registrar) was in attendance. Apologies for absence were received from Miss L. Cunniffe and Messrs. V. McElwee and D. J. Kennelly.

Greetings for the New Year were received from the Archbishop of Dublin; the Commissioner of the Civic Guard; the presidents of the Pharmaceutical Societies of Great Britain, Northern Ireland, Victoria, Australia; the Pharmacy Board of Victoria; the Danmarks Apotekerforening; the chairman of the Scottish Department, Pharmaceutical Society of Great Britain; the Pharmaceutical Council of Western Australia; the presidents of the Irish Drug Association, Ulster Chemists' Association, and the Irish Pharmaceutical Students' Association; the editors of The Chemist and Druggist, and the Pharmaceutical Journal.

The Select Committee on Statutory Instruments wrote asking for details of the specific sections of the Pharmacy Acts under which the Pharmaceutical Regulations, 1958, were framed. A draft reply submitted by the registrar and giving the required information was approved by the Council.

The following letter from Mr. A. A. Toher, Sligo, was read: "Dear Mr. President, some months ago I intimated to Mr. Power that I could no longer spare enough time to give Council affairs the attention they deserved, and I asked him to look out for a suitable person for my area. I am delighted to hear that Mr. Jack O'Donnell of Charlestown has come forward, and I now give you formal notice of my resignation. I take this step with great regret for membership of the Council is an educative experience as well as a responsibility. However, the work to be done is so onerous and important that I would rather resign than be perforce an irregular attender at meetings. May I return thanks for the privilege of being a member of Council..."

THE PRESIDENT: It is regrettable that Mr. Toher found it necessary to resign. He was one of our younger and most promising members who devoted a great deal of time and ability to the work here. I would ask you all to join with me in paying tribute to him for the sterling work he has done during the ten years he has served on the Council. To fill the vacancy which Mr. Toher's resignation has created I would like to propose the name of Mr. Jack O'Donnell for co-option. As president of the West of Ireland Chemists' Association he has given generously of his time, and done a great deal for pharmacy in the West. I think he would be an excellent choice and he is willing to serve. I move that he should be co-opted.

MR. COSTELLO: I have much pleasure in seconding that Mr. O'Donnell should be co-opted a member of this Council. In doing so I wish to be associated with the president in expressing not only our thanks but our deep regret that Mr. Toher has been unable to continue to serve here. The older members of the Council, like myself, had come to look upon young men of Mr. Toher's calibre as the men who would follow on and improve on the work we have done. I am sure that we all regret that a young man of such ability as Mr. Toher finds it impossible, for business reasons, to carry on.

The motion that Mr. John P. O'Donnell should be coopted was passed unanimously.

#### Ethics in Pharmacy

Mr. Fionan Harty (honorary secretary, County Kerry Chemists' Association) wrote that his committee wished to obtain the Council's active support in composing a lecture that could be delivered to all graduates prior to their leaving the College. The lecture, among other things, should stress the importance of the graduates seeking the registrar's advice before taking up a position with certain firms. The Association believed that "some graduates are being used by unscrupulous firms to further their own ends and yet remain within the framework of the provision of the Pharmacy Act of Ireland." The Association also sought the Council's advice on the possibility of preparing a short series of lectures on practical ethics in pharmacy, with emphasis on the relationship between the doctor and the pharmacist, "and even more important, the relationship between fellow chemists." The Association thought that such a course would "pave the way for a vast improvement in pharmaceutical practices."

MR. MILLER said that that was a course he had been advocating for some time.

THE PRESIDENT explained that all that could be achieved under the new Bill. A code of rules and regulations would be issued. Until the Bill was passed the Society could not enforce "ethical" rules. THE REGISTRAR said he thought the Kerry Association had in mind a similar scheme to that of the Irish Medical Association, which from time to time directed doctors not to take certain appointments without first contacting the I.M.A.

MR. Costello pointed out that the Pharmaceutical Society of Great Britain had a code of ethics, and recalled that a session devoted entirely to ethics was held at the 1956 British Pharmaceutical Conference in Dublin. The suggestion that a lecture on ethics should be given to students about to graduate was admirable.

MR. BRODERICK said that he had read in THE CHEMIST AND DRUGGIST proposals by the International Pharmaceutical Federation for an international code of ethics (C. & D., January 3, p. 18). There was much in them that could be applied to Irish pharmacy. MR. KISSANE: In Britain they can implement their code—we cannot. MR. O'NEILL suggested that the Council should examine the British code.

MR. CASHMAN said that he believed a lot would be gained by imparting to young pharmacists a sense of responsibility to the public and their fellow pharmacists. He favoured following up the Kerry Association's idea. Reference had been made to pharmacists being "used" by unscrupulous firms, but they were "used" also by some hospitals who employed pharmacists at rates that would not be offered to a dustman. There should be some guiding rules or principles for young pharmacists starting out on their livelihood. Mr. O'REGAN agreed with Mr. Cashman. He, too, thought that the Council should devote more time to the ethics of the profession.

THE REGISTRAR said students were given a lecture on ethics. MR. CASHMAN said he wanted to guard against pharmacists being offered completely inadequate salaries. By raising the standards for pharmacists in public appointments the Council were improving pharmacy generally.

MR. MILLER was glad to find it generally accepted that there should be a code of ethics.

On the suggestion of THE PRESIDENT it was decided to inform the County Kerry Chemists' Association that a lecture was at present given to the students on the lines mentioned, and that powers would be sought in the new Bill to deal with the whole matter. It was further agreed

to augment the existing lecture until the necessary legislation was passed.

The Council approved of three months' leave of absence being granted to Dr. Richard Timoney (dean of the College of Pharmacy) to avail himself of a scholarship in biochemistry at the Max-Planck Institute for Biochemistry, Munich, Germany. The Council directed that its congratulations and best wishes should be conveyed to Dr. Timoney on obtaining that distinction.

It was agreed that the name of Miss Josephine Angela Ahern, Skibereen, co. Cork, should be placed on the Preliminary Register.

Dr. John F. McCusker, 45 Raglan Road, Ballsbridge, Dublin, and Dr. Geoffrey Rosenthal, 104 Rathfarnham Road, Dublin, who submitted L.A.H. certificates were granted registration as pharmaceutical chemists.

Mr. P. O'Briain (the Society's inspector) reported on a recent tour he had made in County Wexford.

The reports of the House, Schools, Law and Certificates and Declaration Committees were submitted and approved. The following changes of address were notified:—

Mrs. Mary Fee (née McManus) to 11 Ascot Road, Moseley, Birmingham; Mrs. Mary O'Leary, M.P.S.I., to Medical Hall, Knocknagree, co. Cork; Mr. Michael J. Alymer, M.P.S.I., to 18 Governey Square, Carlow; Mr. Bernard Feeney, L.P.S.I., to c/o Delaney & Menzies, 29 Queen Street, Auckland, New Zealand; Mr. Patrick J. Salmon, M.P.S.I., to The Square Pharmacy, Kildock, co. Kildare; Mr. Michael Shannon, M.P.S.I., to Templeogue Pharmacy, Templeogue, co. Dublin.

The registrar reported on the deaths of John Anthony Burke, L.P.S.I., John Connick Flood, M.P.S.I., Sheila Forde, M.P.S.I., and Richard Charles Curtis, R.D.

The registrar notified the Council that four candidates had entered for Part I of the January licence examination, and fifty-three had entered for Part II.

#### Greater Powers for the Council?

MR. MILLER moved "that the time is opportune to review the functions of the Council, and if necessary, to seek greater powers to deal with changing pharmaceutical conditions." After a lengthy discussion the Council agreed to set up a special committee to be known as the Planning Committee with Mr. Cashman as Chairman.

The following were elected members of the Society: Misses Ethel Kelly and Mary Shinnick; Messrs. Bernard Ennis, Michael J. Flynn, Jude Foley, Seamus C. Dargan, Liam Lynch, Thomas Dooley, Francis E. Holly.

The following were nominated for membership: Miss Marie T. Baxter, St. Aidan's Cavan, and Mr. Michael Shannon, Templeogue Pharmacy, Templeogue, co. Dublin.

At a meeting of the Benevolent Fund Committee held at the close of the Council meeting, grants totalling £42 were passed for payment.

#### PRETORIA PRELUDE

Impressions of an English pharmacist engaged as a locum in South Africa

K. O. LYNNE

M Y introduction to retail pharmacy in the Union of South Africa was unexpectedly swift, and arose from real necessity — circumstances most gratifying in the life of a locum pharmacist. For within a few hours of presenting my diploma to the secretary of the Pharmacy Board and paying the registration fees (£19 odd), I found myself in charge of one of Pretoria's oldest-established pharmacies through the sudden death of Mr. F. G. Mansfield, for many years the proprietor of "Bones the Chemists."

The strange name of Bones was familiar to me, stirring memories of a pleasant association of five months' duration with Loveitt & Bones, Coventry, some years ago. I made inquiries of the original owner from the older cus-

tomers who knew him, but could get little information except that he once had a partner, a Mr. Skin!

The business was of a good-class family type, specialising in homocopathic dispensing and in the supplying of trusses and surgical belts, elastic hose being imported direct from England and the Continent in large quantities. The lack of a male fitter was causing great inconvenience and loss of business, and soon most of my time was spent in measuring and fitting. As a young man I had not much cared for that job, but now, as I fitted younger men than myself. I was genuinely sympathetic. Nothing mattered except a perfect fit and I was especially thankful that I personally had no need of such an appliance.

#### Two Languages

English was the language of the staff, but most of our customers made their requests in Afrikaans, which is predominant in Pretoria. If a prescription was for a Mr. or Mrs., the directions were written in English; if for a MNR. or MEVR, in Afrikaans. Afrikaans is an easy language to follow with a knowledge of French, German and a little Flemish and shortly, as in every pharmacy, the staff appealed to the locum when, after a lengthy description in Afrikaans, the assistant could not ascertain the customer's requirement. "It was in a small wooden box, had a strong smell like eucalyptus and was for rubbing on." That of course proved to be a menthol cone, still, like many other items, to be translated into the Afrikaans language.

Five native boys were employed for cleaning, delivery and packing, and they were intelligent, willing and useful. Aries, the head boy, was a great favourite. He had twenty years' service to his credit, was devoted to and in return appreciated by his late employer. He proved equally as helpful to me.

Pretoria is a beautiful city with wide streets and avenues planted with jacaranda trees which, when in bloom, are an unforgettable sight. Union Buildings, the administrative parliament offices, is one of the finest edifices in the world.

After a few weeks it was arranged that a former apprentice, trained by Mr. Mansfield and now qualified, should take permanent charge. On the Tuesday before the Saturday on which I was to leave the telephone rang—a personal call for me from Salisbury. "Wiltshire or Southern Rhodesia?" I murmured to myself. "Abrahamson here, of Stability Pharmacy. Are you free? Good. Start on Monday. £120 a month. Am fixing an entry permit for you. Fly up from Johannesburg to Salisbury on Sunday. Will meet you at airport, letter following." Just like that! Locum's luck!

#### A PHARMACIST'S ANTHOLOGY MANUFACTURED ON THE SPOT

From Story of Buchanan Street (Glasgow, 1885), by Daniel Frazer

SIX months after my father's death, my mother removed from Nicholson Street (where I was born during the closing days of George the Third), to a court in Argyle Street facing Maxwell Street, where we lived two years. While living there I had daily an opportunity of watching the antics of a bear in the back cellar of a hairdresser, who afterwards killed it on the premises for the manufacture of "genuine bear's grease"! This example was followed about twenty-two or twenty-three years afterwards by my neighbours, Messrs. Sturrock, in their original Glasgow premises, No. 19 Buchanan Street, which they opened in 1847. These consisted of a single shop, approached from the street by a flight of steps, and a floor above devoted to their hairdressing department, the basement being occupied by a wine merchant. This formed the whole of the house which was afterwards taken down, and now forms part of Messrs. Stewart & Macdonald's warehouse. Soon after opening this shop they exhibited to the public for some days the carcase of a bear which they had previously slaughtered at their Edinburgh premises. The crowds that blocked the street to see this huge animal were so great that at least two policemen had to be called into requisition to regulate their ingress and egress.

#### **GOVERNMENT RESEARCH**

#### Work done at the National Chemical Laboratory in 1958

RECENTLY the National Chemical Laboratory, Teddington, Middlesex, gained headline prominence in the national Press through the decision of the Department of Scientific and Industrial Research that certain microbiological work carried out at the Laboratory should be abandoned. The universities were to be encouraged to take it over (see C. & D., December 20, 1958, p. 649).

What has been the nature and extent of the research work done at the Laboratory? In 1958 200 research scientists as teams under seven groupings were concerned with current utilitarian research, standardisation, and work of possible value to industry and the country.

#### Corrosion

Corrosion inhibition studies with bimetallic couples of copper and aluminium are being continued. Standard metal strips immersed in test solutions demonstrate that sodium chromate in concentrations from 0.1 per cent, prevents corrosion. Increased concentration is accompanied by increased pH, which may be offset by the addition of sodium metasilicate. The comparatively new but already well established tracer technique introduced Cr<sup>51</sup> into the sodium chromate, measurement of the chromium uptake being readily calculated from the measurement of the δ radiation emanating from standard experimental metal strips after immersion. Ethylene glycol solution, 33 per cent., benefits by the addition of sodium benzoate 1.5 per cent. and sodium nitrite 0.1 per cent. Conditions requiring higher concentrations of the sodium salts permit the trebling of these concentrations. Corrosion arising from electrical activity associated with the presence of sulphate bacteria was also being studied. The metal destruction arises when localised electrical activity in anærobic conditions, and at a ph of 6-8.5, promotes the activity of Desulphovibrio desulphuricus. The organism utilises the hydrogen produced at the cathode of the "corrosion cell." Sulphate is reduced to sulphide, which combines with the iron present and causes black ferrous sulphide to be deposited upon the anode of the cell. The microbiology department investigated three anærobic organisms, within the "sulphate - reducing" classification, 'sulphate - reducing" which have economic effects. They have a selective preference for the S<sup>32</sup> isotope of sulphur and will not use S<sup>34</sup> when that is present. Calcula-tions have shown that, before the exis-tence of a planetary atmosphere, mas-sive activity occurred 800 million years ago (300 million years before the dating of the first calcareous fossil) on the part of the anærobic sulphate-reducing The Desulphovibrio desulbacteria phuricans organism occurs in all soils and water. It produces salt-tolerant and pressure-tolerant variants capable of living in the sea and in saline lakes. Maximum growth occurs at 30°-37° C. The organism is non-sporing and has one flagellum. Clostridium nigrificans also occurs in soil and water.

organism develops in spoiled foods and demonstrates maximum growth at 55 C. It has several flagellæ and its spores are able to survive prolonged heating. Desulphovibrio orientis, which is peculiar to the soil of Singapore, has an occasional spore-bearing organism which grows best at 30° C. It has two or more flagellæ. The economic activities of those organisms range from the blackening of paper pulp, spoilage of canned food, and corrosion of iron and steel, to their influence upon sewage effluent. In Egypt and in Soviet Russia they have been responsible for deposits of sodium carbonate. Thus:

$$\begin{array}{c} \text{reduction} \\ \text{Na}_2\text{SO}_4 & \longrightarrow & \text{Na}_2\text{S} \\ \text{CO}_2 & \text{H}_2\text{O} \\ \text{Na}_2\text{S} & \longrightarrow & \text{Na}_2\text{CO}_3 \, + \, \text{H}_2\text{S} \end{array}$$

The same reaction has been responsible for the "ripening" by Clostri-

dium nigrificans of the medicinal mud at Piestary Spa in Czecho-Slovakia.

Further interesting work in the microbiology department of the laboratory was upon anærobic continuous culture. The apparatus is constructed and used within an incubator. Medium inoculated with methanobac-teriaceæ is contained in a tube provided with a downward sloping outlet, which permits the collection of effluent and is equipped with a sampler. An outlet at the top of the tube permits the collection of methane in a reservoir in which the volume may be measured. An inlet tube allows the addition and replenishment of the media from a bottle over the contents of which nitrogen gas is maintained at pressure such that any increase causes media to be added to the culture container. Utilisation of the media is necessarily slow, defeating adjustment of flow by orthodox methods. Using a three-chambered container the two extremity sections are equipped with electrodes connected to a 1.5-volt battery. The electrolyte is potassium sulphate, which in a 0.5 molar concentration produces gas at the rate of 1.5 mils per hour per milliamp. The resulting flow from the electrolysis sections of the containers causes the same volume of media, via the pressure of the nitrogen gas, to be fed into the culture flask. The organisms are capable of growth upon a number of substrates. Thus 25 mgm, of magnesium chloride or 4,000 mgm. of ethanol per litre may be used. Alternatively butyrate or glycine may make suitable substrates. The methanobacteriaceæ assist in the digestion of food in the rumen of cattle. Excessive activity of those organisms give rise to the condition known as "bloat," which causes death.

The national collection of industrial bacteria, till now at Teddington, featured many new pigment-producing organisms. The collection provides a service to industry and research laboratories and aids education. Forty-six organisms are listed in the catalogue, capable of producing a wide range of substances, including antibiotics, vitamins, enzymes and organic solvents. For microbiological assays fifty-six strains are listed. Though the department is only eight years old its value to the nation must be considerable. Preservation of organisms in a viable state enlists freezing and drying. The essential technique lows the standard procedure of high vacuum applied to cultures at a temperature of 30° C. Moisture is condensed as ice in a neighbouring vessel at a temperature of  $-50^{\circ}$  C. Research is proceeding upon the production of ion-exchange membranes. PVC film is being used for the purpose of the work, which may be summarised in the following diagram:-

exchange anion exchange.

New ion-exchange resins have been discovered. Two compounds are arsonic acid resins and two are phosphoric acid resins. Resorcinol 4 arsonic acid is synthesised by the direct arsonation of resorcinol, thus:

HO 
$$OH$$
 HO  $OH$   $+H_3AsO_4 \longrightarrow AsO_3H_2$ 

Another compound is derived from a cross-linked polystyrene resin treated with p-dichloroarsino-benzoyl chloride. The resulting compound is hydrolysed, followed by oxidation.

The first phosphoric acid resin is produced by the reaction between triethyl phosphite and a chloromethylated cross-linked polystyrene resin, followed by hydrolysis. The second resin is derived from cross-linked polystyrene condensed with phosphorus trichloride followed by chlorination, esterification

and hydrolysis.

Research has also been active into electron-exchange polymers, which have a wide range of possible applications. The compounds may be prepared by the reaction of a labile halogen atom containing quinone with an alkali-metal derivative of a polyhydroxy compound. Thus a sodium cellulose or sodium polyvinyl alcohol is reacted with tetrachloroquinone or 2:5 dichlormethyl hydroquinone acetate. The polymer so produced may be used for the removal of oxygen from boiler water; preparation of hydrogen peroxide; in a reduced form as a polymerisation inhibitor for vinyl resins; or in an oxidised form as polymerisation catalyst for vinyl monomers; as an anti-stain agent for photographic emulsions; and as an antioxidant to ensure the removal of peroxides from ether. Apart from those almost pedestrian uses it is suggested that such a compound may have a prophylactic or protective value for administration in the event of accidental ingestion of radioactive material which, not being rapidly excreted, presents a dangerous source of ionising radiation.

#### Polymer Derivatives

Polymer chemistry has also introduced polyethylene hydrazine, a compound with marked chelating and reducing properties. A number of polymer derivatives can be obtained by condensation with aldehydes or ketones. Polyethylene hydrazine is readily prepared from N-amino oxazolid-2-one, an intermediate used in the synthesis of furazolidine. That compound upon pyrolysis at 175° C. gives polyethylene hydrazine and carbon dioxide. The laboratories are responsible for the recording of physical and the physiochemical measurements of chemicals. Thus pure substances are classified by melting-point, freezing-point, cryoscopic

constants, and latent heat of fusion, boiling-point (as well as variations produced by differing pressures), density, refractive index, infra-red spectra, dissociation constants, the second virial coefficient (measurement of deviation from ideal gas laws of organic vapours at pressures up to one atmosphere), critical temperature, heat of combustion and heat of formation, specific heat of vaporisation, latent heat of vaporisation. Mixtures of substances are standardised by infra-red spectra, thermodynamic properties of vapour/liquid systems, solubility in water and in  $D_2O$ (heavy water), coexistence curves and equilibrium curves. The methods and apparatus used and the degree of complexity of this apparatus is considerable. For molecular weight determination an Antweiler apparatus provides upon a microscale the diffusion constant of a test substance and, in addition, sedimentation constant.

unit obtains the diffusion constant by calculation from changes in the refractive index of a liquid. The sedimentation constant is derived from observations of the boundary conditions in the meniscus of a centrifuge cell.

Microchemistry was in evidence in applications to analytical determinations. An example in linc with the current advance of fluorine chemistry was the determination of carbon and hydrogen in a fluorine compound. The sample enclosed in a silica combustion tube is volatilised at a temperature of 750° C. The fluorine is taken up by the silica to form silicon tetrafluoride, and is removed as sodium fluoride. The carbon in the form of dioxide is absorbed by carbasorb (asbestos impregnated with soda) which is weighed gravimetrically. Similarly the hydrogen, in the form of water is absorbed by anhydrone (magnesium perchloride) and also gravimetrically estimated.

#### **NEW SCIENTIFIC INSTRUMENTS**

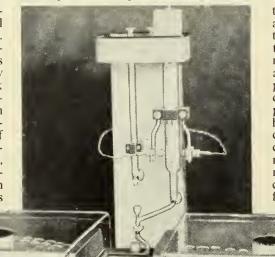
#### Physical Society's forty-third annual exhibition

THERE were 152 stands at the forty-third exhibition held by the Physical Society in London, January 19–22. Companies in the electronic and scientific instrument industries as well as official research and atomic energy organisations, hospitals, not to speak of the Royal Swedish Academy of Engineering Sciences, showed between them an extensive range of new inventions and applications. A number of new ph meters, for example, were displayed by ELECTRONIC INSTRUMENTS, LTD., Lower Mortlake Road, Richmond. They included the Vibron direct-reading meter with scale readings

of 1'4 pH units and a discrimination of 0.005 pH; a blood pH meter, said to be the first instrument specifically designed for the purpose; it covers the extreme limits of 6'6-8'0 pH and is intended for clinical or hospital laboratory use; a miniature industrial meter that meets a current demand from in-

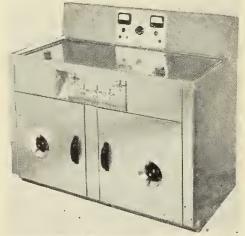
dustry; a self-contained portable meter for field and laboratory use and registering to 0·1 pH. The company were also showing a direct-reading fluorimeter for the analysis of fluoroscopic substances in ultra-violet light and a sulphur dioxide analyser sensitive to 1 part in 2 million.

BAIRD & TATLOCK (LONDON), LTD., Chadwell Heath, Essex, showed apparatus for centrifugal chromatography. The normal method is accelerated by applying centrifugal force by revolving a disc of filter paper at a constant speed in a horizontal position in a closed chamber, adding the developing solvent at a point near the centre of the paper in the form of a fine controlled jet A simplified prototype gas-chromatograph instrument was shown capable of giving results thought as good as





Fraction collector to meet current needs in chromatography. Test tubes from 5-mil to 180-mil capacity may be used. A stainless-steel belt carries a continuous train of test tubes past a fixed filling point. (Baird & Tatlock (London), Ltd.).



Soniclean surgical instrument cleaner, (Dawe Instruments, Ltd.).

those obtained from more complicated and expensive apparatus and designed to carry out qualitative and quantitative analyses of both gaseous and liquid mixtures with boiling points up to about 200°C. Another prototype apparatus that measures accurately the distribution of radioactivity along paper chromatograms is already in hospital use. The company's fraction collector employs new principles. Its capacity is 600 fractions with a volumetric measuring range from 1 to 200 mils per fraction. A stainless steel belt carries standard test tubes past a fixed filling point at which individual frac-

tions are measured and decanted. Fractions are measured volumetrically by a photoelectric device arranged to scan the liquid level of eluent accumulated in a calibrated glass vessel.

DAWE INSTRU-MENTS, LTD., 99 Uxbridge Road. London, W.5. showed ultrasonic cleaning equip-

ment, including the Soniclean surgicalinstrument cleaner (type 1170) specially developed for use in hospital cleaning of scalpel blades, clips, needles, bowls and basins using hospital detergent and avoiding manual handling.

ERICSSON TELEPHONES, LTD., 22 Lincoln's Inn Fields, London, W.C.2, demonstrated an electrical weighing installation for use as a means of load indication; as a means of control; or as a mechanical drive for encoding in digital form for record purposes.

STANTON INSTRUMENTS, LTD., 119 Oxford Street, London, W.I, displayed a recording thermobalance claimed the only commercial available single-unit instrument in the world ablc to weigh continuously at 1,400°C. to an accuracy of 1/10,000 gm.

(To be concluded)

#### **NEW FROM PEARS**

# First baby powder with Roccal\*

You yourself well know the remarkable properties of Roccal. Now it's in Pears Baby Powder. New Pears is just as safe, gentle, fragrant and soothing as other baby powders, but thanks to Roccal, it has far greater protective and prophylactic powers. It is effective against a wide range of skin organisms and in particular it destroys the bacteria that cause Ammonia Dermatitis. It's an extremely effective body deodorant too.

\*Active Ingredient: 0.2% Benzalkonium Chloride.

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- \* Impressive double page and whole page ads. in all the most widely read mother-and-baby magazines.
- \* Special advertising to nurses and midwives.
- \* Attractive display material for your shop.

#### MAY WE COUNT ON YOUR SUPPORT?

Your advice as a chemist counts for a very great deal, and by recommending this remarkable new powder to your customers, you will be rendering them a service.

#### STOCK

#### PEARS baby POWDER







#### HALIBUT LIVER OIL CAPSULES

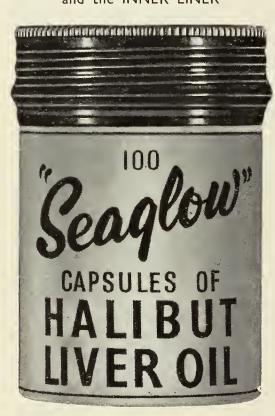
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THEAKROCK PHARMACEUTICALS LTD

	COST PRICE	RETAIL PRICE
<b>50</b> 's	<b>13/-</b> per doz.	I/6 each
100's	21/- ,, ,,	2/9 ,,
1,000's	<b>15/6</b> each	22/6 ,,

The base of each Aluminium Container is Code-stamped with the date of manufacture and guarantees fresh stocks.

**DISPENSING PACKS:** 

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50's 9/9 per dozen drums

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Guaranteed Vitamin Content per capsule:-

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4,500 I.U. Vitamin A 450 I.U. Vitamin D

Spectrophotometrically Tested

#### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 21: More interest was shown in a few of the SPICES during the week, as a result PEPPER values rose fractionally. There were more inquiries also for GINGER particularly after Cochin sharply advanced their prices.

Cape ALOES was down by 10s, per cwt, on the spot, and AGAR by threepence per lb. BENZOIN importers were unable to give quotations from origin, Both Chinese and Brazilian MENTHOLS were dearer in the forward position, but STYRAX prices fell as supplies became freer. CINNAMON quills for shipment were slightly easier. Among Aro-MATIC SEEDS, Indian CELERY advanced to 137s. 6d. per cwt., c.i.f. (up 10s.) and Moroccan Coriander, although easier in the previous week, turned firmer with shippers asking 42s. 6d. per cwt., c.i.f., against 40s. 9d. Shipments of Tinnevelly Senna from the Port of Tuticorin during December 1958 were

	U.K.	U.S.	EUROPE
SENNA	Tons	Tons	Tons
LEAVES	12	33	97
PODS	11		18

In ESSENTIAL OILS, LEMONGRASS continued firm with prices threepence per lb. up on the previous week; Brazilian PEPPERMINT was also dearer by threepence per lb. on the spot, and fivepence for shipment, Indian Sandal-wood advanced by sixpence per lb., on the spot, while Mysore oil held its recent gains. Lower per lb. were Ceylon CITRONELLA (down one penny), Bourbon GERANIUM (2s. 6d.), PATCHOULI (sixpence), PETITGRAIN (ninepence) and CASSIA (threepence).

ZINC OXIDE advanced 40s. per ton but Potassium acetate was lower by threepence per 1b. with 1-cwt. lots now quoted at 3s. per lb.

#### **Pharmaceutical Chemicals**

ADRENALINE. — Rates for synthetic B.P. are from 1s. 1d. (500-gm. lots) to 1s. 6d. (10-gm.) per gm. and ACID TARTRATE, B.P., from 9d. to 1s.

Antimony salts.—Quotations for pot-assium tartrate b.p., are 7s. 6d. per 1b. for 1-10 cwt. and sodium tartrate, b.p., 12s. 6d.

BARBITONE.—Rate for less than 50-kilo ts is 53s. 6d. per kilo. The SODIUM lots is 53s. 6d. per kilo. The derivative is 56s. 9d. per kilo.

derivative is 56s. 9d. per kilo. The Sodium derivative is 56s. 9d. per kilo.

Borax. — B.P. grade for quantities of 1 ton and upwards; Granular, £55; crystals, £57 10s.; powder, £58 10s.; extra fine powder, £59 10s. per ton. Supplied in hessian sacks. Prices of commercial range from £45 to £50 10s. per ton, as to type and packing. Dehydrated borax is £68 per ton in paper-lined hessian bags or £67 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt., 3 cwt., 2s.; 1 cwt., 3s.

Boric acid. — Prices (per ton) for B.P. grade in quantities of 1 ton and upwards are as follows: — Granular, £89 10s.; crystals, £96 10s.; powder, £94; extra-fine powder, £96 per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical grades range from £75 10s. to £85 per ton according to type and packing.

Butobarbitone. — B.P.C. is 82s. 6d. per kilo in minimum 25-kilo lots.

CALCIUM CARBONATE.—B.P. light precipitated powder, 1-ton lots, £33 per ton in free bags, ex works.

Calcium chloride. — B,P. crystals are 1s.  $3\frac{1}{2}d$ ., and granulated,  $10\frac{1}{2}d$ . per 1b. in 1-cwt. lots.

CALCIUM GLUCONATE. — Quantities of 3 cwt. and upwards are quoted at 3s. 6d. per lb.; 1 cwt. to 2 cwt., 3s. 7d.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. quantity. Succin to 12s. 3d. per lb.

CHALK. — Prepared powder B.P., is £22 per ton for minimum 1-ton ex works.

CHLORAL HYDRATE. — In 1-cwt. lots the

COCAINE.—For 16-oz. lots the price of the HYDROCHLORIDE is 91s. 6d. per oz. and ALKALOID, 101s. Subject to D.D.A. Regulations

CYCLOBARBITONE. — Less than 25 kilos: B.P.C., 73s. per kilo. CALCIUM 85s.

GUAIACOLS.—LIQUID B.P. is 16s. 3d. lb. for 28-lb. lots; CRYSTALS, 16s. 9d.; CARBONATE, 18s. 3d.

In 25-kilo lots or HEXOBARBITONE. over the price is 115s, per kilo.

HOMATROPINE.—Current rates (per oz.) for 16-oz. lots are now: Alkaloid, 30s. 6d.; Hydrobromide, 24s. 6d.; Hydrochloride, 28s. 6d.; Methylbromide, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

lodides. — Current quotations (per lb.) include the following:—

	1	28-lb.		1-cwt.			5-cwt.		
D		· s.	d,		5.	d.		5.	d.
POTASSIUM SODIUM		12	0		12	3		12	0
Ammonium		21	9	1	20	5	1	14-	_

IODOFORM.—Powder is 22s, 4d. per lb. in 28-lb. lots; 21s, 8d, in 1-cwt, and 21s, 1d, in 5-cwt, lots, Crystals are 3s, per lb. more than the powder.

ISOPRENALINE SULPHATE.—B.P. is 1s. 3d. per gm. for 1,000-gm. lots and 1s. 9d. per gm. for 100-gm. lots.

KAOLIN.—In 1-cwt. bags LIGHT is quoted at 60s. per cwt. and 1-ton lots at 57s.

LACTIC ACID. — B.P. is 4s. 5d. per lb. for 12-winchester lots and 4s. 4d. for 5-cwt. lots.

Lactose.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £129 10s. per ton, delivered in the United Kingdom.

Mandelic acid.—In 1-cwt. lots the price is 12s. 6d. per lb., with the calcium salt also 12s. 6d. Sodium mandelate is 13s. and ammonium mandelate 50 per cent. solution, 7s. 6d.

MERCURY DERIVATIVES.—Quotations (per kilo) for less than 50-kilo lots are now as follows:—AMMONIATED, B.P., lump or powder, 58s. 9d.; PERCHLORIDE, B.P., powder, 50s. 9d. and lump, 51s. 9d.; SUBCHLORIDE (calomel), B.P., 58s., OXIDES, yellow, B.P., 61s. 6d.; red B.P.C., 1949, 62s. 6d.

METHADONE HYDROCHLORIDE. — Price is from 2s. to 2s. 6d. per gm. as to quantity. Subject to D.D.A. Regulations.

METHOIN.—B.P. is about 120s. per lb. METHYL PHENOBARBITONE.—B.P. is 95s. per kilo for less than 25-kilo lots.

METHYL SALICYLATE.—Five-ton lots are 3s. per lb.; 1-ton, 3s. 0½d.; 10-cwt., 3s. 1d.; 5-cwt., 3s. 2d.; 1-cwt., 3s. 3d.

OPIATES.—Home trade prices (per oz.) subject to D.D.A. Regulations:—

		35 oz ov	Uno 35 c		
	-	S.	d.	s.	d.
CODEINE					
PHOSPHATE		41	0	42	0
HYDROCHLORIDE		47	3	48	3
SULPHATE		47	3	48	3
ALKALOID		54	0	55	0
MORPHINE					
ACETATE		50	0	51	0
HYDROCHLORIDE		50	0	51	0
SULPHATE		50	0	51	0
TARTRATE		60	0	61	0
ALKALOID		61	3	62	3
ETHYLMORPHINE			_		
HYDROCHLORIDE		54	0	55	0
ALKALOID		63	3	64	3
DIAMORPHINE					
HYDROCHLORIDE		54	9	55	9
ALKALOID		59	9 1	60	9

PAPAVERINE. — Synthetic HYDROCHLORIDE is 295s. per kilo, minimum l-kilo lots.

PHENOBARBITONE. — Under 50-kilo lots are 50s. per kilo and sodium, 55s. 6d.

PARALDEHYDE. — B.P. in 12-winchester lots is 2s. 7d. per lb.; 10-gall. carboy, 2s. 2d., and 5 carboys, 2s. Stabilised in 40-gall. drum lots, 166s. per cwt.; technical, 149s. per cwt.

Pentobarbitone sodium. — 25-kilo lots are 125s. per kilo.

PETHIDINE HYDROCHLORIDE. — B.P. 100gm. lots, 100s. Subject to D.D.A. regu-

PHENACETIN. — In 5-cwt. lots makers' price is now 6s. 8d. per lb.; 1-cwt., 6s. 9d.

PHENAZONE. - Imported material minimum rate. 13s. 10d. per 1b.

POTASH SULPHURATED. — Lump, B.P.C., is 2s. 4d. per lb. in 1-cwt. lots.

Potassium acetate. — (Per lb.) 1-cwt. lots, 3s.; 5-cwt., 2s. 8d.; 10-cwt., 2s. 6d.

POTASSIUM BICARBONATE. — B.P. powder is 110s. per cwt. 1-4-cwt. lots and 105s. per cwt. for 5-cwt. and over.

Potassium 8-hydroxyquinoline sulhate. — 1 kilo is 47s. 1d. and 50 kilos, PHATE. -

Potassium nitrate. — Pharmacopæial quality is 100s. per cwt. (crystal or powder) in 1-cwt. lots.

Potassium Permanganate. — Current rate for B.P. material for 1-cwt. lots is 1s. 11d. per lb. Technical is 204s. 6d. per cwt. and £193 10s. per ton.

POTASSIUM QUADROXALATE. — One-cwt. lots are 3s. 6d. per lb.

PROCAINE HYDROCHLORIDE.—100-kilo lots are about 45s. per kilo.

ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows:—In 5-cwt. lots or over, 200s. per cwt.; 1-cwt., 202s. 6d. SEIDLITZ POWDER, ordinary strength is 160s. 6d. per cwt. in 1-cwt. lots; smalls, from 2s. to 2s. 3d. per lb. Extra strong is 172s. 6d. per cwt., and from 2s. 1d. to 2s. 4d. per lb. for small quantities. Double-strength is 180s. per cwt.; smalls, 2s. 2d. to 2s. 5d. per lb. ROCHELLE SALT. — Rates (per cwt.) for

SALOL. —Quotations for B.P.C. are about 9s. per lb. for 1-cwt. lots.

SULPHACETAMIDE. — Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The SODIUM derivative is 30s.

Sulphaguanidine.—Manufacturers' rates for 1-cwt. lots are about 11s. per lb.

SULPHANILAMIDE.— Manufacturers' rates for 1-cwt. lots are 5s, 9d, per lb.

SULPHATHIAZOLE. — Price (per lb.) for 1-cwt. lots is 16s. 6d.

ZINC OXIDE. — Dearer. B.P. quality in 2-ton lots is now £112 10s.; 1-ton, £113; 10-cwt., £114 10s.

#### Crude Drugs

ACONITE. — Spot supplies of Spanish napellus are 2s. 6d. per 1b.

AGAR.—Kobe is 10s. 3d. per lb., duty aid; new-crop for January-February shipment, 8s. 6d.

ALOES. — Cape prime on the spot is 220s, per cwt. and for shipment, 202s. 6d., c.i.f.

ANISE (STAR).—Chinese is 110s. per cwt. c.i.f. and 135s. spot, duty paid.

BALSAMS. — Quotations per lb. are:—CANADA: Spot, 23s. COPAIBA: Para from 7s. 6d., duty paid. PERU: Spot, 9s. 10d. in bond. TOLU (genuine as imported): 23s., B.P., 15s. 6d.

BENZOIN.—Sumatra block on the spot is £22 to £28 as to quality. Shipment not offering.

CALAMUS.—Root is quoted at 1s. 4d. per lb., c.i.f.

CAMPHOR.—B.P. POWDER is from 4s. 3d. per lb., duty paid. TABLETS, \(\frac{1}{4}\)-oz., are 5s. 6d. in bond.

CARDAMOMS.—Aleppy greens are offered on the spot at 14s. per lb.; January-February shipment is 12s. 4d., c.i.f.; Seeds, spot, 24s., shipment, 19s. 6d., c.i.f.

Cascara. — Spot 1958 peel, 240s. per cwt.; shipment, 200s. to 210s., c.i.f.

CHERRY BARK.—Thin natural is 1s. 5d. per lb., and rossed is 1s. 11d.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb.; OOOO, 7s. 1d.; OOO, 6s. 10d.; OO, 6s. 8d.; seconds, 4s. 8½d.; featherings, 1s. 11d.; quillings, 4s. 1½d.; chips,

Cochineal.—Silver-grey Peruvian quoted 6s. 4d. per lb., c.i.f.; Canary Isles black-brilliant, 20s. 6d.; silver-grey, 17s. 6d.,

COLOCYNTH PULP.—Spot, 3s. per lb.

GENTIAN. — Spot: French, 170s. per cwt.; Jugo-Slavian, 152s. 6d.

GINGER. — African, 100s. per cwt. spot and c.i.f. Jamaican No. 3, spot 265s. and shipment 240s., c.i.f. Cochin dearer at 115s. spot and 105s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts are 135s. per cwt. on the spot; January-February shipment, 119s., c.i.f.

HENNA.—Indian new-crop affoat, 82s. 6d. per lb., ex wharf shipment, 62s., c.i.f.

HYDRASTIS.—Spot 28s. per 1b.

HYOSCYAMUS.—Dutch leaves (niger) are 1s.  $6\frac{1}{2}$ d. per lb., c.i.f., prompt shipment.

1PECACUANHA. — Shipment (c.i.f.) Matto Grosso, 53s. 6d. per lb., resellers and 54s. original; Colombian, 56s. 6d., c.i.f. (January-February).

KOLA NUTS. — Jamaican spot market cleared, shipment, 7d. per lb., c.i.f. African 5d, to 5\darklet{d}. spot and 4d., c.i.f.

Lanolin. — Anhydrous, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and Hydrous, B.P., 150s., free drums, delivered.

LIQUORICE. — Natural root: Persian on the spot is 50s.; for shipment, 42s. 6d., c.i.f., per cwt. Block juice: Anatolian and Chinese, 190s. per cwt. Italian stick from 310s. to 476s. per cwt. Spray dried extract, 2s. 10½d. per lb.

LYCOPODIUM.—Russian triplc-sifted offering at 25s. per lb., c.i.f.

MENTHOL.—Chinese is 52s. 6d. per 1b., duty paid and 48s. 6d., c.i.f.; Brazilian, spot, 35s., duty paid, January—February shipment, 33s., c.i.f. Formosan for shipment, 36s., c.i.f.

MERCURY. — Price per flask (76-lb.) is £74 on the spot.

NUTMEGS.—West Indian 80's, 17s, per o., spot; sound unassorted, 12s, 9d.; lb., spot; so defectives, 9s.

Orange Peel. — Scarce. Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 8d.

PEPPER.—White Sarawak spot, 2s. 8d. per lb., January shipment, 2s. 7½d., c.i.f.; Black Sarawak spot, 1s. 7d.; January shipment, 1s. 6½d., c.i.f. Black Malabar nominal at 212s. 6d. per cwt. on the spot; new-crop for January-February shipment, 187s. 6d., c.i.f.

cwt., c.i.f., shipment. *Peltatum*, on the spot, 4s. 3d. per lb.; shipment, 450s. per cwt., c.i.f. PODOPHYLLUM. — Emodi:

Pyrethrum.—Extract, minimum 25 per ent. w/w pyrethrins, is 75s. per lb. for small lots.

Quassia.—Shipment offers (January) are 39s. per cwt., c.i.f.

QUILLAIA.—Spot offers of whole bark at 130s. per cwt.; cut, 170s.; crushed, 165s. Whole for shipment, 110s., c.i.f.

RAUWOLFIA. — Canescens, 2s. per 1b., i.f.; Vomitoria, 2s. 3d., c.i.f.; Serpenc.i.f.; Vomitoria, 2s. tina, 6s., c.i.f. asked.

Rhubarb.—Chinese small rounds 6s.  $4\frac{1}{2}$ d. to 6s. 9d. Best grades not available on

SAFFRON. — Spanish is quoted at 220s. per lb.

SARSAPARILLA.—Jamaican native red on ne spot is 2s. 9d. per lb. Shipment, 2s. 6d., c.i.f.

2s. 6d., c.i.f.

SEEDS.—(Per cwt.). Anise. — Spanish, 167s. 6d.; Turkish, 140s., both duty paid. Caraway. — Dutch are quiet and unchanged at 120s., duty paid. Celery.— Indian unchanged on spot at 160s. January—February shipment has advanced to 137s. 6d., c.i.f., with business reported. Coriander. — Moroccan offered at 50s., duty paid and Polish at the same price. Moroccan for shipment now 42s. 6d., c.i.f. Cumin. — Firm. Cyprian, 260s.; Iranian, 260s., duty paid. Dill.—Indian, 72s. 6d.; shipment, 58s., 6d., c.i.f. Fennel.—Chinese offered at 150s., duty paid and Indian, 155s. Fenugreek. — Moroccan on spot 45s., duty paid, with small business reported. Mustard. — English dearer at 125s. Danish unchanged at 95s. duty paid. duty paid.

SENEGA. — Spot offered at 14s. 6d. per lb.; shipment scarce.

SENNA. — Tinnevelly LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q., No. 3, 10d. Pods, manufacturing (f.a.q.) 1s. 3½d. and hand-picked, 1s. 9d. to 2s. 2d. Alexandria pods: Manufacturing, offered from 1s. 6d. with hand-picked from 4s. to 6s. 6d.

SHELLAC. — F.O.T.N. 180s. per cwt., O. No. 1, 210s.; fine orange, 217s. 6d. F.O. No to 270s.

SLIPPERY ELM. — Grinding quality bark is 2s. 7d. per lb.

SQUILL. — White is quoted at 85s. per cwt. on the spot.

STRAMONIUM. — Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STYRAX. — Spot, 28s. per lb.; shipment, 23s., c.i.f.

Tonquin Beans.—Para on the spot are offered at 8s. 3d. per 1b.

Tragacanth.—No. 1 ribbon is £11 £120 per cwt. No. 2, £105 to £110.

TURMERIC. — Madras finger is 62s. 6d. on the spot; current crop for shipment, 58s. 6d., c.i.f.; March-April, 60s., c.i.f.

VALERIAN ROOT. — Spot: Indian (with rootlets) is 130s. and Belgian, 175s. to 195s. per cwt. Dutch (max.  $2\frac{1}{2}$  per cent. sand) for prompt shipment, 159s., c.i.f.

Vanillin.—Rates (per lb.) are now: 5-cwt. lots, 25s. 3d.; 1-cwt., 25s. 6d 56-lb., 25s. 9d.; smaller quantities, 26s.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 485s.; shipment, 470s., c.i.f. Abyssinian, spot, 450s. in bond; shipment, 435s., c.i.f. Benguela spot, nominal; shipment 440s., c.i.f. Candelilla.—Spot 460s. Carnauba.—Fatty grey spot, 585s.; for shipment, 575s., c.i.f. Prime yellow, spot, 920s.; shipment 875s., c.i.f.

#### Essential and Expressed Oils

Almond. — British oil is 9s. per lb. Moroccan, 6s. 9d., in bond.

AMBER.—Rectified on the spot is 1s. 6d. per lb.

BERGAMOT. — Spot supplies are from 86s. 6d. per lb.

CANANGA. — Spot is from 47s. 6d. to 50s. per 1b.

CASSIA.—Spot is 13s. per lb.; shipment, 13s. 3d., c.i.f.

CELERY SEED. — Oil is 90s. per lb. for bulk lots.

CHENOPODIUM.—Spot value is 36s. per lb. for original containers.

CITRONELLA.—Ceylon, spot is 3s. 10½d. shipment, 3s. 3½d., c.i.f. Formosan, spot 3s. 10½d., in bond; shipment, 3s. 7d., c.i.f.

COD-LIVER. — B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CUBEB.—Small spot supplies of imported are 65s, per lb.

CUMIN.—Quotations for English-distilled oil are about 90s. per lb. and imported,

GERANIUM.—Bourbon is 112s. 6d. per lb. on the spot and 110s., c.i.f. Algerian,

GINGER.—English-distilled oil is 160s. per lb. Imported: Jamaican, 130s.; Chinese, 72s. 6d., duty paid.

LAVANDIN.—Spot is from 10s. to 12s. 6d. per lb. for original drums.

LAVENDER.—French oil, 40-42 per cent. is at 42s, per lb.

LAVENDER SPIKE.—Spanish is at 16s. 6d. to 17s. 6d. per lb. for original drums.

Lemongrass. — Spot 5s. 9d. per 1b., and shipment, 5s. 6d., c.i.f.

LIME.—West Indian distilled is in the

region of 50s. per lb. on the spot.

ORANGE.—Spot quotations of sweet oil include Floridan at 12s, 6d. per lb.; Californian, 15s.; West Indian, 12s.; West African, 24s. 6d.; Israeli, 16s. 6d. For prompt shipment, Californian cold-pressed U.S.P., 16s. 9½d., c.i.f.; distilled, 6s. 5d., c.i.f. Terpeneless is 200s. per lb., spot.

PATCHOULI. - Penang is 21s. 6d., duty paid and 18s. 6d., c.i.f. per lb.

PEPPERMINT. — Arvensis: Chinese is 25s. per lb. spot; shipment 22s., c.i.f. nominal. Brazilian, 8s. spot, and 7s. 9d. c.i.f. Formosan, 16s. 6d., spot.; newcrop for January–February shipment, 14s. 6d., c.i.f. Piperita: Italian "Mitchamtype" from 42s. 6d. to 50s.; American 27s. 6d. to 30s., as to origin.

PETITGRAIN. — Paraguay is offered at 17s. 6d. per lb. on the spot; 16s. 6d., c.i.f. Rue.—Spanish is 25s, per lb. on the

spot. SAGE.—Spanish is 9s. 9d. per lb.; Dalmatian, 37s. 6d.

Sandalwood. — Mysore offered from 82s. 6d. to 85s. per lb. as to source. East Indian, 82s. 6d., spot.

VETIVERT. — Spot is currently at about 80s. per lb.

#### UNITED STATES REPORT

NEW YORK, JANUARY 20: The Glycerin Producers' Association reported that glycerin sales in 1958 approximated 220 million lb. compared to 243 million lb. in 1957. A few small lots of Hungarian Chamomile Flowers are expected shortly, and dealers will probably offer them at \$2.75 a lb. Lower per lb. were whole IPECACUANHA at \$7.50 (down 50 cents); Ceylon CITRONELLA OIL eased five cents to 60 cents a lb. and CELERY SEED OIL to \$13.00 (down 50 cents). Eugenol dropped five cents to \$1.70 a lb.

#### WORLD TRADE

Spain-Sweden Trade Agreement. new trade agreement, valid until October 31, has been concluded be-tween Spain and Sweden. Swedish exports to Spain may include pharmaceutical preparations to the value of Kr.  $\frac{1}{2}$  million (£34,500).

Iran Pegs Drug Imports.—The Ministry of Health in Iran has announced that, in order to keep down the cost to the consumer, prices of imported pharmaceuticals would be pegged at 30 per cent. above the c.i.f. price. Many importers consider that margin insufficient and a syndicate was recently formed to negotiate for an improved margin with the Ministry.

Chilean Peso Devalued Again. -The Chilean Government has again devalued the peso by lowering its value in free bank exchange dealings. The quotation against the dollar was fixed on January 20 at 1,004 buyer, 1,006 seller against 991/993 established on December 9, 1958. It is believed that the Government will continue progressive de-valuation until a single, completely free exchange rate has been established.

Improved Business Forecast in U.S. -Sales of chemicals in 1959 are expected to reach \$24,200 millions, or five per cent. above 1958, with exports expected to top the 1958 figure of \$1,400 millions and imports remaining even at \$300 millions. Imports still are a minor factor, but competition from abroad—including that from the Soviet Union-is on the rise. Sales of photographic products and supplies in 1959 are expected to total \$2,124 millions, a 7.7 per cent. increase over 1958. Exports also continue to grow, with 1958 sales estimated at \$86 millions, for a new record.

U.S. Firms' Widening Interests.—The Export-Import Bank recently announced the granting of the first credits in French francs and Pakistani rupees to United States manufacturers to expand their manufacturing facilities in France and Pakistan. The one credit to Pakistan totalling one million rupees, equivalent to 210,000 U.S. dollars, was granted to Warner-Lambert (Pakistan), Ltd., of Karachi, an affiliate of the Warner-Lambert pharmaceutical company of Morris Plains, New Jersey. The funds would be used to build a factory in Karachi to produce drugs and toilet products with repayment to be made over a six-year period. The extended franc credits included: 85 million francs to Union Chimique Atlantique, Paris, an affiliate of the Upjohn Co., Kalamazoo, Michigan; and 95 million francs to Abbott, S.A., St. Remy, a subsidiary of Abbott Laboratories of Chicago.—United States chemical companies are becoming increasingly interested in closer liaison with research activities in Europe, according to the Journal of Commerce. It attributes this partly to keener competition in the industry, with resultant emphasis on development of new products and processes, which is leading companies to seek ways to spend their research funds most effectively.-Eastman Kodak Co. plans to invest about \$61 million in capital improvements during 1959.

#### TRADE MARKS

#### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," January 1 For chemical substances prepared for use in analytical tests in medical diagnosis or treat-

Device with word AMES, 748,016, by Ames Co., Inc., Elkhart, Indiana, U.S.A, or sanitary substances and di infectants, all in

liquid, powder or solid form (5)
SATINEX, 776,043, by Neatex Products, Ltd.,
Queensferry, North Wales.

For pharmaceutical preparations and substances for human and veterinary use in controlling urinary excretion (5)

URICORTEN, 776,146, by CIBA, Ltd., Basle, Switzerland,

For pharmaceutical preparations for the treatment of ailments of the skin (5)

ARX, 776,879, by Harry Conn, London, E.14. For disinfectants (5)

DRAN-X, 776,881, by Harry Conn, London,

For pharmaceutical preparations containing vitamin C, being goods in tablet form for use in the relief of peptic ulceration and hyperacidity (5)

ALKA-SCORB, 779,971, by Carlton Laboratories (Southern), Ltd., Brighton, Sussex. For all goods (5)

PARVOL, 780,669, by The British Drug Houses, Ltd., London, N.1. PROFEM, 781,187, by Schering Corporation, Bloomfield, New Jersey, U.S.A. NILAMEZ, 781,548, by Imperial Chemical Industries, Ltd., London, S.W.1. For pharmaceutical substances for human and

veterinary use; and sanitary substances and dis-

DIAQUIN, 781,201, by Imperial Chemical Industries, Ltd., London, S.W.1.

For pharmaceutical preparations for human use

WARDUZIDE, 781,504, by Ward Casson, Ltd., London, W.1.

For catamenial appliances, surgical dressings, and sauitary clothing (5)

KAMEX, 780,784, by Karl Isaac Woolf Kleinberg, Liverpool, 14.

For insecticides, fungicides and preparations for killing weeds and destroying vermin (5)

CYPREX, 781,361, by Murphy Chemical Co., Ltd., Wheathampstead, St. Albans, Herts.

For pharmaceutical preparations and substances for human and veterinary use (5)

BRADOFORM, 781,549, by CIBA, Ltd., Basie, Switzerland.

For photographic and cinematographic apparatus; parts and fittings, etc. (9)
Device with word GEVAERT, B776,751, by

Gevaert Photoproducten N.V., Mortsel, Bel-

For electrically operated appliances for removing

and applying facial toilet preparations (9)
VELOURYL, 779,169, by Antoine François
Regis Peyron, Paris, France.

For surgical elastic stockings made wholly or substantially of nylon (10)

NYLITE, 781,510, by Colby Products, Ltd..

London, N.W.1.

For chemical products for use in agriculture, horticulture and forestry, all being goods containing phosphorus and carboxylic acid amide chemical

FOSFAMIDONA, B777,519, by CIBA, Ltd., Basle, Switzerland.

#### From the "Trade Marks Journal," January 7

For all goods (1)
MYCOSTAN, 780,2998, by British Schering,
Ltd., London, W.8,

For all goods (3)

CHARMENTA, 778,943, by Hans Schwarz-kopf, Hamburg-Altona, Germany.

For cosmetic preparations (not being toilet pre-

SWANDOWN HIDDEN TREASURE, SWAN-DOWN YOUNG AND FAIR, 781,345-46, by Henry Tetlow Co., Ltd., London, W.10. For pharmaceutical, veterinary and sanitary sub-

stances; disinfectants; and preparations for killing weeds and destroying vermin; all being

chemical substances (5)
WHIFFENS, 760,575, by Whiffen & Sons,
Ltd., London, S.W.6.

#### **COMING EVENTS**

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

#### Monday, January 26

NORTH STAFFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, Hanley, at 8 p.m. Dr. D. A. N. Hoyte on "The Growth of the Orbit."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY lecture hall, Freedom Fields Hospital, at 7.30 p.m. Dr. H. F. P. Herdman on "The International Geophysical Year and Oceanography.
Film: "Pharmaceutical Conference."

#### Tuesday, January 27

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, 1mperial hotel, at 8 p.m. Mr. R. C. Cannon on Wines.'

GLASGOW PHARMACY CLUB, Cadora restaurant, Union Street, Dinner-dance,

LONDON UNIVERSITY, anatomy lecture theatre.
University College, Gower Street, London,
W.C.1, at 5.30 p.m. Professor G. W. Beadle Mendelian Inheritance." Technology) (California

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, at 8 p.m. Mr. David Wilson on "My Hobby is Bird Watching."

#### Wednesday, January 28

PHARMACEUTICAL SOCIETY, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Mr. K. R. Fell on "A Pharmacognosist in Nepal."

BRISTOL PHARMACEUTICAL BRANCH, Berkeley hotel, Clifton, Bristol, Annual dinner

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH. PHARMACEUTICAL SOCIETY, Charlotte rooms, Charlotte Street, Edinburgh, at 6.45 p.m. Annual dinner and dance.

LONDON UNIVERSITY, Institute of Diseases of the Chest, Brompton Hospital, London, S.W.7. at 5 p.m. Dr. J. L. Livingstone on "Steroid Therapy in Asthma."

MICROCHEMISTRY GROUP, SOCIETY FOR ANALYLICAL CHEMISTRY, at 6,30 p.m. Dr. J. C. Gage on The Determination of Small Quantities of Toxic Substances in the Atmosphere."

SWANSEA AND WEST GLAMORGAN BRANCH, PHAR-MACEUTICAL SOCIETY, Mackworth hotel, Swan-sea, at 7,45 p.m. Branch resolutions and film show.

WEST MIDDLESEX CHEMISTS' ASSOCIATION and BRANCH, Paul's restaurant, Ealing, London, W.5, at 7.30 p.m. New Year party.

#### Thursday, January 29

NOTTINGHAM BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Albert Hall institute, Derby Road, Nottingham, at 7 p.m. Annual meeting; film show by Mr. N. W. Bull,

#### Friday, January 30

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY. Chez Laurie, Herne Bay, at 8 p.m. Annual dinner and dance.

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Brighton Technical College, at 7 p.m. Dr. F. L. Rose (Imperial Chemical Industries, Ltd.) on "Chemotherapy." SCOTTISH SECTION, SOCIETY FOR ANALYTICAL

CHEMISTRY, James Craig restaurant, 10 Woodland; Road, Glasgow, C.3, at 1.30 p.m. Mr. P. S. Hall on "The Identification of Artificial Colouring Matter in Food,"

#### Saturday, January 31

NORTH OF ENGLAND SECTION, SOCIETY EOR AN-ALYTICAL CHEMISTRY, Nag's Head hotel. Lloyd Street, Manchester, at 2,15 p.m. Mr. H. E. Stagg on "Synthetic Foodstuff Colours— Control of Quality."

#### Advance Information

WEST HAM PHARMACISTS' ASSOCIATION and BRANCH, Trocadero restaurant, Piccadilly Circus. London, W.1, at 6.30 p.m., on March 5. Annual dinner and dance. Ticket (price 45s.) available dinner and dance. Ticket (price 45s.) available from Mr. W. H. Cloud, 45 Longbridge Road, Barking, Essex.

#### **COMMERCIAL TELEVISION**

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies. Where known, the number of appearances of the product during the week is shown in parentheses.

TELEVISION MARKETING MAP: A map produced by Associated Television, Ltd., Television House, Kingsway, London, W.C.2, gives advertising agencies and advertisers detailed marketing information about the two areas in which the company operates. The map is held to be the most comprchensive ever issued by a television programme contractor, It contains, in addition to the geographical "breakdown," information about population figures and the numbers of retail outlets. Copies may be had from the company's advertising and sales promotion depart-

#### LONDON February 1-7

Alka-Seltzer, Amami wave set (3), Anadin (3). Angier's junior aspirin (2), Aspro (2), Beecham's powders (3), Bisodol (2), Bristow's shampoo (3), Brylcreem, Camay (2), Christy's liquid lanoline (3). Delsey toilet tissue. Digestif Rennies (2). Diuromil.

Eno's Fruit Salt (2), Fynnon salt, Germolene (3), Gibbs' S.R. tooth-paste (3). Gillette razors and

blades, Horlicks (3), Jif plastic lemons (6).
Kleenex tissues (3), Kolynos tooth-paste.
Lantigen 'B,' Lectric-shave, Lemskin (3), Loxene medicated shampoo (2), Maclean's tooth-paste (3), Mac throat sweets, Max Factor Hi-Fi lipstick (2). Medic-Aire (2). Milk of Magnesia (2). Moorland indigestion tablets (2). Nemakol. Owbridge's lung tonic, Pacquins (2). Penetrol. Phensic (4). Phillips' tooth-pastc (2). Phosferine (3). Phyllosan, Punch and Judy toothpaste, Rinstead pastilles.

Sanatogen (4). Savlon barrier cream (2), lozenges (2). Silvikrin hair cream (2), shampoo (2). Suregrip house gloves (3). Veno's cough mixture (3). Vosene shampoo (4). Yeast-Vite. Zubes (5), cough mixture.

#### MIDLAND

Alka-Seltzer (2), Amami wave set (3), Anadin (3), Angier's junior aspirin (3). Anne French (2). Antussin (3), Aspro (3), Beecham's pills (2), powders (3), Bristow's shampoo (2), California syrup of figs, Camay (2), Cojene (5), Digestif

Rennies (3). Diuromil (2).

Germolene (3). Gibbs' S.R. tooth-paste (3).

Gillette razors and blades. Horlicks (3).

Kleenex tissues (3). Knight's Castile soap (7).

Lantigen 'B.' Lectric-shave. Lemskin (3), Loxene medicated shampoo, Maclean's tooth-paste (3), Mac throat sweets, Max Factor Hi-Fi lipstick (3), Milk of Magnesia, tablets (2), Milpar. Moorland indigestion tablets. Nemakol, Owbridge's lung tonic, Pacquins (2), Penetrol. Phosferine (2), tonic wine, Phyllosan (3).

Sanatogen (4). Savlon barrier cream (2), lozengcs (4). Scotts emulsion (2). Shavex (2). Silvikrin hair cream (2), shampoo (2). Silk 'N Satin (2). Suregrip house gloves (3). Thru (2). Veno's cough mixture (3). Vosene shampoo (4). Yeast-Vite, Zubcs (4), cough mixture (2).

Alka-Seltzer (3). Amami wave set (6). Anadin (8), Andrews liver salt (3), Anne French, Aspro. Beccham's pills (6), powders (6). Bristow's shampoo (5). California syrup of figs. Camay (6). Delrosa (3). Digestif Rennies (3). Diuro-

mil (2). Fennings' little healers (3), Fynnon salt, Germolene (8). Gibbs' S.R. tooth-paste (6), Gillette razors and blades (2), Horlicks (6), Kleenex

tissues (4), antigen 'B' (2), Lemskin (3), Loxene mediantigen 'B' (6) Lantigen cated shampoo (4). Maclean's tooth-paste (6). Mac throat sweets (3). Max Factor Hi-Fi lip-Mentholatum decp heat rub (2). Milk of Magnesia tablets (4). Moorland in-digestion tablets (2), Nemakol (4), Owbridge's lung tonic (3), Pacquins (2), Penetrol (2), Phensio (6), Phosferine (4), Phyllosan (3),

Sanatogen (4), Savlon barrier eream (4), lozenges (4). Scott's emulsion (2), Sea Pearls (3), Setlers. Shavex (2). Silvikrin hair cream (2), shampoo (4). Sqczy (12). Suregrip house gloves (6). Thru. Veno's cough mixture (7). Vosene shampoo (8). Yeast-Vite. Zeph (3). Zubes (4), cough mixture (2).

#### SCOTLAND

Anadın (4), Askit (12), Aspro, Beecham's pills (3), powders (4). Bristow's shampoo (3). Camay (4). De Witt's antibiotic throat lozenges (2). Digestif Rennies (3).

Ferguzade (5), Fynnon salt (2), Germolene (4). Gibbs' S.R. tooth-paste (2). Gillette razors and blades. Horlicks (3), Kleenex tissues (2), Lantigen 'B.' Lemskin (3), Loxene medicated

shampoo (2). Maclean's tooth-paste (2). Mac throat sweets (2), Max Factor Hi-Fi lipstick (3). Milk of Magnesia (2). Moorland indigestion tablets (2), Nemakol (2), Owbridge's lung tonic, Pacquins (2), Penetrol, Phensic (2). Phillips' tooth-paste, Phosferine (2)

Savion barrier cream (2), lozenges (3), Silvi-krin shampoo (2), Sqczy (3), Suregrip house gloves (3), Thru, Veno's cough mixture (3), Vosene shampoo (3), Yeast-Vite, Zcph (2), Zubes (4), cough mixture (2).

#### WALES

V

(0

Alka-Seltzer (2). Anadin (3). Beecham's powders.

Bristow's shampoo (3) Brylcreem (3) Camay

(2), Digestif Rennies (3), Diuromil (2), Fynnon salt, Gibbs' S,R, tooth-paste (4), Gillette razors and blades, Horlicks (3), Kleenex tissues

Lantigen 'B.' Loxene medicated shampoo (2). Maclean's tooth-paste (3), Mac throat sweets (2), Max Factor Hi-Fi lipstick (3), Milk of Magnesia tablets (2), Moorland indigestion tablets, Nemakol, Owbridge's lung tonic, Pacquins (3). Phensic, Phyllosan (3). Preparation H. Punch and Judy tooth-paste. Rinstead pastilles.

Savlon barrier cream (2), lozenges (3). Silvikrin shampoo (2). Suregrip house gloves (3). Thru. Veno's cough mixture (3). Vosene shampoo (4). Yeast-Vite, Zubes (2).

#### SOUTH

Amami wave set (3), Anadin (3), Bisodol (2), Bristow's shampoo (3), Camay (2), Delrosa (2), Fennings' little healers, Gibbs' S.R. tooth-paste Gillette razors and blades.

Kleenex tissues (2), Knight's Castile soap (7). Lantigen 'B,' Loxene medicated shampoo (2). Max Factor Hi-Fi lipstick (2), Milk of Magnesia tablets (2). Moorland indigestion tablets. Nemakol, Rinstead pastilles,

Savion barrier cream (2), lozenges (4) Silvikrin shampoo (2), Suregrip house gloves (3), Thru. Vosene shampoo (4). Zubes (3), cough mixture.

#### C. & D. WEEKLY LIST OF PRICES

A = Advanced; R-Reduced; I.R.P. = Inclusive Retail Price; • = Tax 30 per cent.; ‡ = Tax 60 per cent.

50 mgm. 100 I riules lobeline hydrochlor-	tach I.R.P. 11 2 10½ $R$ $\frac{1}{5}$	WILLIAM FREEMAN & CO., LTD. Bathing caps:— Suba Scal "Chic" "Sea Child" "Sea Diver"	2	1I 6 6 6	A R
cooper's fly killer; moth proofer; Fresh - aire; woodworm killer; erawl- ing insect killer aerosols	4 6 S	RACASAN, LTD. let acrosols 5 oz. 10 oz. Space aerosols 5 oz. 10 oz. 10 oz.	8	6 6 6 11	R R

CORTIFORTE LAI	BORATO					
		Do				
ted Velvet syrup*		18	0	2	8	R
COTY (ENGLAND)	LTD.	(fron	n Ja	anuary	- 1	)
erfumes‡:-		,				
L'Aimant	1 OZ.	69	0	12	6	A
	$\frac{1}{2}$ oz.	133	0	24	0	A
	1 oz.	235	0	42	6	A
	4 oz.	580	0	105	0	A
	8 oz.	918	0	168	0	A
(oval bottle)	4 oz.	552	0	100	0	A
l'Origan, Chypre,	Paris					
	1 OZ.	69	0	12	6	A
	½ OZ.	133	0	24	0	A
	1 oz.	235	0	42	6	A
	2 oz.	414	0	75	0	A
	4 oz.	552	0	100	0	A
Muguet des Bois	$\frac{1}{4}$ OZ. $\frac{1}{2}$ OZ. 1 OZ.	58	0	10	6	A
	$\frac{1}{2}$ OZ.	108	0	19	6	A
		180	0	32	6	A
	2 oz.	348	0	63	0	A
	4 oz.	497	0	90	0	$\boldsymbol{A}$
le Nouveau Garder	nia					
	$\frac{1}{4}$ OZ.	58	0	10	6	A
	½ OZ.	108	0	19	6	$\boldsymbol{A}$
	l oz.	180	0	32	6	A
	4 oz.	497	0	90	0	$\boldsymbol{A}$
Meteor fluted sp	rinkler					
top bottle	1 OZ.	85	0	15	6	A
tapering crystal bo	ttles					
	1 OZ.	122	0	22	0	A
	$\frac{1}{2}$ OZ.	192	0	35	0	A
	1 oz.	307	0	56	0	A
	2 oz.	512	0	95	0	A
oval bottle	4 oz.	877	0	160	0	A

tapering crystal bottles					
1 OZ.	122	0	22	0	A
$\frac{1}{2}$ OZ.	192	0	35	0	A
i oz.	307	0	56	0	$\boldsymbol{A}$
2 oz.	512	0	95	0	A
oval bottle 4 oz.	877		160	0	A
Muse, le Vertige ½ oz.	133	ŏ	24	0	A
4 oz.	580		105	0	Â
la rose Jacqueminot	200	Ü	100	·	
1 103c Jacquellinot 1 0Z.	58	0	10	6	A
4 oz.	497		90	ŏ	A
Emeraude, Ambre An-	771		- 0	Ü	
tique, l'Effleurt, la					
Jacee, l'or, Styx,					
A'suma, Jasmin de	£00	0	105		4
Corse 4 oz.	580		105	0	A
erfumed sachets‡	32		5	9	
wistick solid Cologne	43	0	7	9	A
oilet water‡:─					
handbag size	36	0	6	6	A
1 oz.	47	0	8	6	A
2 oz.	69	0	12	6	A
4 oz.	114	0	21	0	A
Other Coty price changes	neia	Over.)			

#### NEW PRODUCTS AND PACKS

AYRTON, SAUNDERS &	CO.,	LTD
"Monroe" dropper bottle		
½ OZ.	4	0
3 doz.	3	10
quantities assorted		
2½ gross	3	4
½ OZ.	4	4 3 1
3 doz.	4	1
quantities assorted		
$\frac{2\frac{1}{2}}{2}$ gross	3	7
1 oz.	4	6
3 doz.	4	4
quantities assorted		
2½ gross	3	10

THE BRITISI	H DRUG	HO	USES,	LT	D.		
Secrosteron ta	blets		Eac	ch			
5	mgm.	30	25	0	37	6	
		100	75	0	112	6	
CAVALCADE	BEAU	JTY	PRI	EPA	RATI	ONS	Š,
LTD.			Doz	5.			
Hanri egg sha	mpoo* 1	ube	25	0	3	9	
CHLORIDE	BATTERI	ES,	LTD.				
Drydex torch	2AT20*				16	1	
DISTILLERS	CO. (B)	ЮСН	IEMIC	ALS	S), LT	D.	
	(		Eac				

Distolyt tablets*	24 100	3	0	5 16	5
Zynocin lozenges	12	2		3	ğ
ELIZABETH ARDE "Veiled Radiance" foundation cream;				17	6
ELTIBAR DEVELOPMENTS, LTD. "Gaul Green" rheumatic massage*			2	9	
Gumbulce dental oir	ntment*			1	11
GOYA, LTD.					

GOYA, LTD. "Cedar Wood" after-shave lotion‡	5	6
IMPERIAL CHEMICAL INDUSTRIES, Hibitane concentrate Doz.	Lī	D.
Hibitane concentrate Doz. 5 per cent. 100 mils 60 0	7	6
M. & R. NORTON, LTD.		
"Jordan Water" Each eau de Cologne‡ 14 0	29	6

# Neophryn with Antihistamine

The "stuffy nose" sufferer who can't breathe, can't smell and can't taste, looks to you for relief. By recommending Neophryn with Antihistamine you can restore life's lost savour to him—and many thousands like him.

Neophryn with Antihistamine combines the powerful nasal decongestant Neophryn with thenyldiamine HCI. This antihistamine, besides its specific effect on allergy, has a mild anaesthetic action and enhances the decongestive properties of Neophryn. Freedom from side effects means that you can recommend Neophryn with Antihistamine with absolute confidence—even for children.

# Neophryn with Antihistamine



Available in plastic atomisers, precision engineered to give a fine, penetrating spray, for maximum effect. Trade Price: 2/8d. Retail Price: 4/0d.

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Associated exporting company Winthrop Products Ltd



Special announcement prepare for the most

prepare for the most sensational advance in household rubber gloves backed by a powerful nation-wide campaign

Marigold TWO-TONE

EVERY ITV NETWORK
PLUS SUNDAY EXPRESS
CONTINUOUS THROUGH
MARCH, APRIL, MAY

ASSOCIATED-REDIFFUSION—A.T.V. (LONDON AND MIDLANDS) A.B.C. (MIDLANDS AND NORTH) GRANADA—SCOTTISH—T.W.W.—SOUTHERN AND TYNE TEES.

J. ALLEN RUBBER CO. LIMITED, WHITECROFT, GLOUCESTERSHIRE

# LOXENE

**MEDICATED SHAMPOO** 

# will be seen by millions

# EVERY MEEK ON ALL LINE STATIONS

THROUGHOUT THE WINTER

But this is only part of the biggest ever drive for extra sales for Loxene. The sales message on the T.V. screens of Britain will be magnificently supported by a really BIG press campaign including the National Daily and Sunday newspapers and the cream of Women's weekly and monthly magazines.

Loxene Medicated Shampoo is now even more powerful because the antiseptic, Thymol, has been replaced by Iolan. This formula, exclusive to Loxene, has been proved more efficient in the treatment and inhibition of dandruff. Only Loxene Medicated Shampoo Contains Iolan.

Sales of Loxene Medicated Shampoo are higher than ever . . . this heavy and hard-hitting publicity will create new sales records — and bigger profits.



# BIG SPACE ads in . .

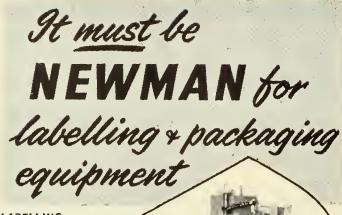
DAILY EXPRESS
DAILY HERALD
DAILY MAIL
DAILY MIRROR
DAILY SKETCH
WOMAN
MY HOME
WOMAN'S DAY

THE PEOPLE
EMPIRE NEWS
SUNDAY EXPRESS
NEWS CHRONICLE
DAILY TELEGRAPH
WOMAN'S MIRROR
WOMAN'S REALM
WIFE AND HOME

SUNDAY DISPATCH
SUNDAY PICTORIAL
BELFAST TELEGRAPH
NEWS OF THE WORLD
GLASGOW SUNDAY POST
WOMAN'S WEEKLY
WOMAN'S ILLUSTRATED
WOMAN'S OWN, ETC.

F. W. HAMPSHIRE & CO. LTD · SUNNYDALE · DERBY

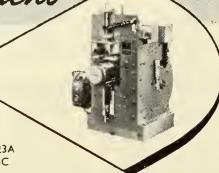
Urgent orders phone Derby 22202 (3 lines)



LABELLING MACHINES, Bench Model,

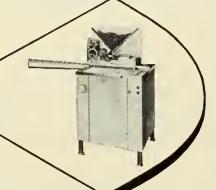
Semi Automatic

Gum and apply labels to small and medium bottles, packs etc. Quick change-over. Strip Gumming Model 23A Fully Gumming Model 3C



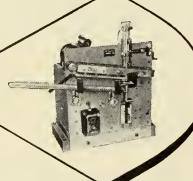
#### VIAL & AMPOULE PRINTING MACHINE

High quality printing. Double impression offset system using quick drying or ceramic inks. Variable speed control. Quick change-over Model IF



#### LABELLING MACHINE Bench Model, Automatic

For ampoules, vials, crayons, tubes, torch cells etc.
Label coding available.
High quality labelling due to sustained pressure on label after application.
Model 2B:



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Open weekdays from 10-6

#### LABEL GUMMING MACHINE

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OCHRE APRICOT and RACHEL
TUBES No. 2 No. 3

TRADE 7/6 doz. 12/3 doz. RETAIL 1/4 ea. 2/2 ea.
JARS: TRADE 17/2 doz. RETAIL 3/- ea.

## Telpust CREAM POWDER COMPACT

Velpuff is a perfect creamy base, with the softest, finest powder. Ready to be smoothed on with its own puff, it stays matt for hours.

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WITH MIRROR
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WHOLESALE
33/6 per doz.
4 SHADES
FASCINATION
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(Peach)
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(Brunette)
Also No. 1 Size
(Metal Case)
Retail 3/4
Wholesale 18/8 doz,



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8Floz.

16Floz

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DE-LUXE

5 sizes in 4 colours including

a NEW 4 CUP SIZE.

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FACUUM FLASK CO LTD PHOSHIX

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RDQV-K

THE PREFERRED ORAL PENICILLIN ...

## 'Distaquaine' V-K

POTASSIUM PENICILLIN V

... IN TABLET FORM FOR CONVENIENCE AND ECONOMY

#### PRESENTATION

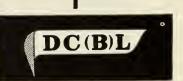
Available in three strengths of tablets containing the equivalent of 60 mg., 125 mg. and 250 mg. penicillin V as potassium salt.

Basic cost to the N.H.S of 12 tablets from dispensing pack of 100 or 200 2s. 4d. (60 mg.); 4s. 10d. (125 mg.); 9s. 7d. (250 mg.)

#### DOSAGE

Adults: 125 — 250 mg. four-hourly, depending upon the severity of the condition

Children (12 years or less): 60 — 125 mg. four-hourly, depending upon the severity of the condition

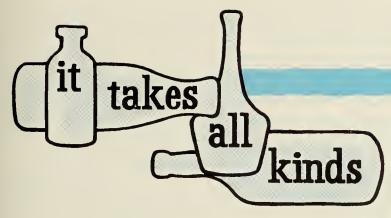


THE DISTILLERS COMPANY (Biochemicals) LIMITED

Sales Division:

Broadway House, The Broadway, Wimbledon, London S.W.19 Telephone: LIBerty 6600

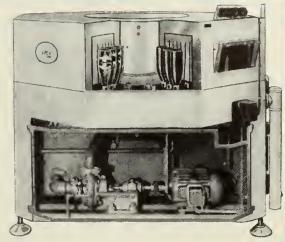
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... cleaning 2,000 bottles an hour, in less than 30 sq. ft. of floor space.

The APEX can cope with bottles in any condition and shape or size.

Overall dimension 5'6'' long x 5'6'' wide x 4'9'' high.





\* After Sales Service and Spares readily available.

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These are included in the range of over 400 pharmaceutical chemicals produced by

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Morphine Alkaloid B.P.C. 1934

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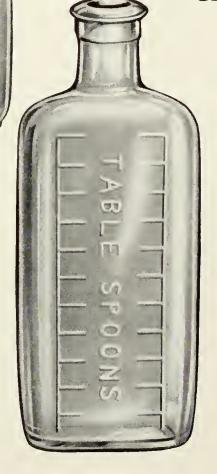
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RIBBED OVALS

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PLAIN OVALS

PLAIN OVALS
4-oz. 8-oz. and 16-oz.

BOW-FRONT PANELS 1-oz. 10 8-oz. and 16-oz.

**OLIVE OIL BOTTLES** 2½-0z., 5-0z. ond 10-0z.

OVAL TABLET BOTTLES

Nos. 1 to 7½ sizes.

ROUND SCREW JARS
Toll ond Semi-squat.

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1 oz 10 4-oz.

VIALS 1/2-0z. 10 3-0z.

RECTANGULAR TABLET BOTTLES

Nos. 1, 2, 3, 4, 5 ond 6 sizes.

★ AMBER BOTTLES. We can now offer certain types of glass containers in Amber and your enquiries are invited.

TRADE N MARK

# A powerful synergistic combination

#### TARCORTIN CREAM

For sub-acute and refractory skin affections

Treatment of sub-acute and refractory skin affections can now be considerably enhanced by combining tar, an established germicide, stimulus and anti-pruritic, with hydrocortisone as in TARCORTIN. Together, the medicaments have pronounced advantages over either one alone.

TARCORTIN CREAM is non-greasy, stainless and hydrophilic and is supplied in 7 grm. and 15 grm. tubes containing 0.5% Hydrocortisone in a special coal-tar extract.



Manufacturing Chemists HATFIELD · HERTS · ENGLAND

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#### IDEAS BEGIN WITH BORON MORE

#### A shining face for modern building

A clean, permanent and colourful finish to the outside as well as the inside of buildings is an attractive prospect in architecture. It is provided by the use of 'curtain walls' of vitreous enamelled steel, which require less space than load-bearing walls, resist the elements better and cost far less to erect. In the production of tenacious and gleaming enamels for every purpose, borax is a vital ingredient. This contribution to building economy and progress is another new idea that is made possible by the use of this familiar product. In nuclear research, in new synthetic materials, and in rocket fuels, as well as in established fields of industry and pharmacy, the varied properties of boron compounds give rise to many new possibilities for progress.

#### BORON IN PHARMACEUTICALS

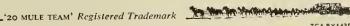
In the pharmaceutical industry, boric acid has long been acknowledged as one of the safest and gentlest antiseptics available, and is used in many modern talc preparations. In ointments, dressings, eye lotions and similar products, boric acid maintains and extends its traditional place on the pharmacist's shelf.

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a hair health shampoo free of all harsh antiseptics. Based entirely on the Pure Natural Oils of the Pine and Ti-Trees is delightful to use and assures a clean healthy scalp.

These three shampoos are in double sachets giving sufficient for 2 complete shampoos. Smart and colourful pack
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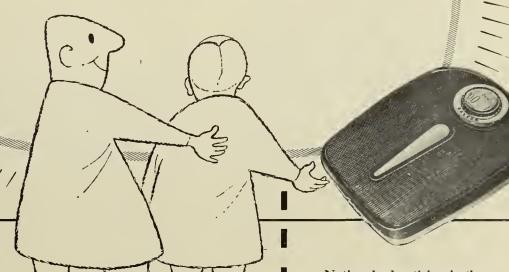
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Always dispense and recommend Burson 2-Way Stretch Hosiery and ensure your customers' complete satisfaction. The quality—finish—colour and durability of Burson Hose make them the first choice of those who appreciate the best. Burson Stockings are fully fashioned and virtually indiscernible in use.

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Bishops have given their blessing to the principles of family planning. In setting forth this enlightened point of view, they have removed the confusion and controversy which have surrounded the subject for years. Their wise and human approach will be endorsed by thoughtful people everywhere.



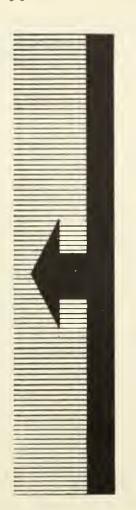
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Philips Sunlamp gives the blessing of "Mountain sun-Doctors know the value of the right type of sunlight and do not hesitate to recommend the Philips Ultra-violet Sunlamp Price: £5.17.6d. (Including goggles.)

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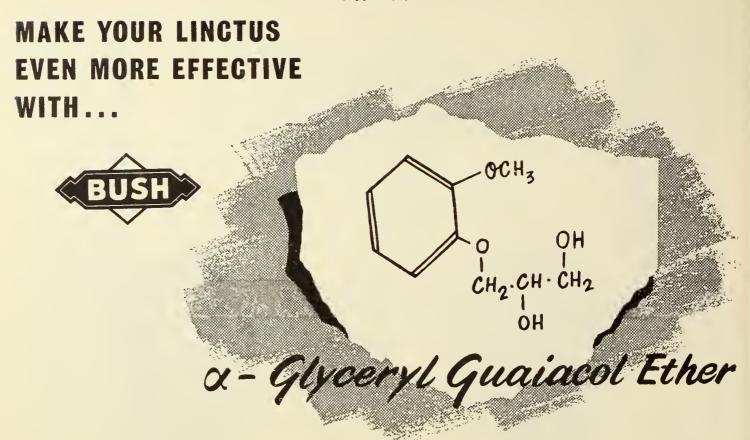


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Pack your products in containers that will not be left on the bathroom shelf! Metal Box polystyrene tubes are attractive and specially designed to be carried in the pocket or handbag.

The colour printed polystyrene tube is the latest aid to the sale of tablets. Direct printing in two colours on the surface of the tube replaces labelling entirely, and the tube presents an extra smart and attractive appearance on the sales counter. Polystyrene tubes are tough and light. Each is effectively sealed by a one-piece polythene stopper, easy to remove and easy to replace. For additional sales-appeal a wide range of coloured stoppers is available. Please ask today for samples and further details.

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THE COST OF
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The Pillar Pack Stopper with the flexible prongs holds tablets gently in place, keeping them undamaged. No cotton wool is needed, no labour to insert it. The tube looks neat,

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# STOP PRESS FLIT Press-Button Spray

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All 5 oz. reduced by 1/- to 4/6 each 12 oz. reduced by 1/6 to 9/- each

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DETAILS WILL REACH YOU SOON

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antitussive tablets

Each sugar-coated tablet contains:

CHLORCYCLIZINE HYDROCHLORIDE 10 mg. GUAIACOL GLYCERYL ETHER 100 mg.

- \* in tablet form for ready administration when coughs embarrass
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For throat infections

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antiseptic and sore throat lozenges

Each pleasantly-flavoured lozenge contains:

XANTHOCILLIN 1 mg. BENZOCAINE 5 mg.

- \* contains xanthocillin, the new potent antibiotic, effective against gram-positive and gram-negative organisms
- \* inhibits secondary yeast and fungal activity; no evidence of cross-resistance
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SOUTHWARK, Great Suffolk Street Redevelopment Scheme; now completed. Lock-up Shops to let in new parade in this thickly populated district. Rent £350 exclusive on lease. For further details apply City Surveyor, Corporation of London, Guildhall, E.C.2, Telephone: Mon. 3030, Ext. 341. C 8841

WEST BYFLEET, SURREY, new shop with living accommodation, central position, to be let on lease. Particulars from Smith Bros. (Builders), Ltd., 3 Claremont Road, West Byfleet. Phone: Byfleet 264. C 1949

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A Business making the above wanted by a large Proprietary Company. £20,000 p.a. min Pre-Tax profits. Sound management can remain. Details in confidence to Box C 8823.

PRIVATE PURCHASER with small capital PRIVATE PURCHASER with small capital requires small manufacturing pharmaceutical business in Laneashire or elsewhere if transfer practicable. Preference for business concentrated on one line selling to pharmaceutical trade. Consideration given to non-chemical products. Potential more interesting than profit record, Box C 1920.

#### **APPOINTMENTS**

#### ANCOATS HOSPITAL, MANCHESTER, 4

Pharmacist

Applications are invited for the above post. Whitley Council seale and conditions. Applications, stating age and experience, with names of two referees, to the General Superintendent (Dept. C.D.).

# BROOKWOOD HOSPITAL, KNAPHILL, WOKING Assistant-in-Dispensing

Applications are invited for the above post. The successful candidate will be required to work under the supervision of the Chief Pharmacist, who is responsible for the preparation and issue of drugs and dressings for about 1.750 patients. and issue or 1,750 patients.

1,750 patients.
Salary Scale £170 p.a. at age 16 years rising to £375 at age 22 years or over rising to a maximum of £490 p.a. (plus £20 p.a. for an approved qualification).
Professional and Technical Council B of Whitley Council conditions apply to the appointment which is subject to the provision of the National Health Service Superannuation Regulations.

The successful candidate will be required to

pass a medical examination.

Accommodation available for female candidate for which a charge of £2 8s, per week will be

made, Applications giving particulars of age, experi-ence and qualifications, together with names of two referees to the Physician Superintendent, as soon as possible. C 417

#### CANTERBURY GROUP HOSPITAL MANAGEMENT COMMITTEE

COMMITTEE
Deputy Chief Pharmacist
Applications are invited for the appointment of Deputy Chief Pharmacist to the Group Pharmaceutical Department (Category IV Hospitals), The department which is situated at the Kent and Canterbury Hospital, serves the twelve hospitals, and clinics in the area, Salary within the range £700 and £945 per annum, Applications with full details and names of two referees to be sent as soon as possible to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury.

C 8799

# CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17 Locum Assistant-in-Dispensing (Apothecaries'

Locum Assistant-in-Dispensing (Apolican)
Hall Certificate)
required at the above hospital, 4-9 May, 1959, inclusive. £9 11s. 6d. p.w. Apply, Secretary,
Forest Group H.M.C., Langthorne Road, E.11.
C 8856

#### BURY AND ROSSENDALE HOSPITAL MANAGEMENT COMMITTEE, BURY GENERAL HOSPITAL

BURY GENERAL HOSPITAL
Senior Pharmacist
Applications are invited for the post of Senior
Pharmacist at the above Hospital, Salary scale
£675 per annum rising by increments to a
maximum of £865 per annum.
Apply, stating full details of experience and
names of two referees to:—H, Wilkinson,
Group Secretary, Bury General Hospital.
C 8852

#### CALDERSTONES HOSPITAL MANAGEMENT COMMITTEE,

MANAGEMENT COMMITTEE, CALDERSTONES HOSPITAL, WHALLEY, Nr. BLACKBURN Chief Pharmacist (Category II)
Applications are invited for the above appointment, salary scale £755 x £30 (2)—£815 x £40 (1)—£855 x £35 (3)—£960 x £40 (1)—£1,000 x £30 (1)—£1,030 per annum, Whitley Council conditions of service, Health service superannuation scheme. House available for rent to married man, Board and lodging for single man or woman at a suitable charge. Applications stating age, qualifications and experience, together with the names and addresses of three referees to the Group Secretary, Calderstones Hospital, Whalley, near Blackburn.

HOSPITAL,
HOSPITAL,
PARK ROYAL, LONDON, N.W.10
Locum Pharmacist
Applications
agreement. Applications required. Salary by agreement. Applications stating age, qualifications and experience and names of referees, to Medical Director. C 8817

#### DERBY No. 2 HOSPITAL MANAGEMENT COMMITTEE, BABINGTON HOSPITAL, BELPER, DERBYSHIRE

Chief Pharmacist, Group Basis
Category II Salary £755—£1,030.
The successful applicant will be responsible for organising and maintaining this service throughout hospitals in the Group and will be based at Babington Hospital, Belper.
Applications stating age, qualifications and full details of experience, together with the names of two referees to be forwarded as soon as possible to the Group Secretary, Derby No. 2 Hospital Management Committee, Babington Hospital, Belper.

Hospital, Belper.
Canvassing directly or indirectly will disqualify and applicants must disclose in writing whether they are related to any member or senior officer of the Committee.

C 8855

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#### Appointments—Continued

#### CENTRAL MIDDLESEX HOSPITAL

(Category V)
PARK ROYAL, LONDON, N.W.10
Senior Pharmacist

Senior Pharmacist
Applications are invited for the above post.
Salary on the Whitley Council seale plus London Weighting and higher qualification allowance where applicable, Applications, together with the names of two referees, to be sent to the Medical Director as soon as possible.

#### **DURHAM HOSPITAL**

MANAGEMENT COMMITTEE
Pharmacist (Basic Grade)
There is a vacaney for the above post in the Pharmacy Department of the Durham Group Pharmacy of Hospitals:

of Hospitals:—
Pharmacist (Basic Grade)—£580 a year by annual increments to £785 a year.

The Pharmacy Department is organised on a group basis and is based on Dryburn Hospital, Durham. This is a modern, well-equipped department which offers good experience in the full range of hospital pharmacy.

Post-graduate students will be considered for this vaeancy.

Apply with particulars of previous experience, age, qualifications and names of two referees to the Group Secretary, Dryburn Hospital, Durham.

C 8795

Durham,

#### HAREFIELD HOSPITAL

HAREFIELD HOSTITAL,
HAREFIELD, MIDDLESEX
Assistant-in-Dispensing
required. London Weighting payable and additional £20 p.a. if holding approved qualification. Applications, giving age, qualifications and experience, together with two testimonials to Medical Director.

C 8796

#### HORTON HOSPITAL, **EPSOM, SURREY**

Dispensing Assistant
required. Post vacant April 1, 1959. Salary, age 22 and over £375 rising by annual increments to maximum of £490 plus London Weighting £20—£30 according to age. Whitley Council conditions of service, Additional £20 per annum payable to holder of approved qualification.

Application forms obtain

quantication, Application forms obtainable from the Physi-cian Superintendent, Horton Hospital, Epsom, Surrey. C 8806

#### KING EDWARD VII HOSPITAL, WINDSOR

(Category III Hospital)

required immediately. Whitley salary. Applications giving details of service and names of three referees to Secretary.

C 8816 C 8819

#### MANSFIELD HOSPITAL MANAGEMENT COMMITTEE

MANAGEMENT COMMITTEE
Locum Pharmacist
required for a period for Group Pharmaceutical Department at the
KING'S MILL HOSPITAL,
SUTTON-IN-ASHFIELD, NOTTS.
Salary 17 guineas per week. The hospital is situated on the outskirts of Mansfield in pleasant surroundings (14 miles, Nottingham; 14 miles, Chesterfield). The department is modern and the work interesting. Accommedation miles, Chesterfield). The department is modern and the work interesting. Accommodation available for single person, Applications to the Hospital Secretary, King's Mill Hospital, Mansfield Road, Sutton-in-Ashfield, Notts. C 8831

#### METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8 Pharmacist

for modern department. Permanent post. Salary scale £605-£815 p.a., plus higher qualification allowance and London Weighting. Please apply with details of age, training and experience to the Hospital Secretary. C 437

#### NOTTINGHAM No. 2 HOSPITAL

NOTTINGHAM No. 2 HOSPITAL MANAGEMENT COMMITTEE Post-graduate Students
Applications are invited for the appointment of two Post-graduate Students in Pharmaey at the CITY HOSPITAL, NOTTINGHAM (811 beds), to commence in the Summer 1959. Excellent training and experience is available in dispensing and in the manufacture of a wide variety of sterile preparations and other products. Salary £400 per annum. Applications, with the names of two referees should be sent to the Group Chief Pharmacist, The City Hospital, Hucknall Road, Nottingham, as soon as possible.

C 8832

#### LONDON JEWISH HOSPITAL,

STEPNEY GREEN, E.1

Locum Pharmacist
required at the above hospital from January
26, 1959, for an indefinite period. Salary
£16 16s, per week, Applications to the Ch'ef
Pharmacist (Tel.: STEpney Green 4251), C 8765

#### NAPSBURY (MENTAL) HOSPITAL MANAGEMENT COMMITTEE, Nr. ST. ALBANS, HERTS

(Amended Advertisement)
Chief Pharmacist (Category III)
Applications are invited for the above post.
Whitley Council salary seale £815 x £35 (1) x £30 (1) x £35 (2) x £45 (1) x £40 (3)—£1,115, plus £25 for higher qualifications if applicable. New pharmacy completed 1957. Semi-detached cottage with 3 bedrooms, available on hospital estate at moderate rental. Further details of the post obtainable on request. Applications to post obtainable on request. Applications Group Secretary by February 9, 1959. C

#### NOTTINGHAM No. 2 HOSPITAL MANAGEMENT COMMITTEE, NOTTINGHAM CITY HOSPITAL (811 beds)

Deputy Chief Pharmacist (Category V required at the above hospital. Applications are invited for the above post, which is now

vacant.

The City Hospital is a Group hospital and caters for the pharmaceutical requirements of The City Hospital is a Group hospital and caters for the pharmaceutical requirements of a number of subsidiary hospitals in the area. Applicants should have a wide experience in hospital pharmacy, and be capable of controlling staff. A knowledge of surgical instruments is desirable. The successful applicant will work under the Group Chief Pharmacist and will be required to assume complete control in his absence. Further particulars regarding the post can be obtained on application to the Group Chief Pharmacist. Whitley conditions of salary, Applications, stating age, qualifications and full particulars of previous experience, together with the names of two referees, should be sent to the Group Secretary, The Sherwood Hospital, Nottingham, as soon as possible. C 8833

#### PRESTON AND CHORLEY HOSPITAL MANAGEMENT COMMITTEE, CHORLEY AND DISTRICT

HOSPITAL, CHORLEY
Pharmacist
Applications are invited for the post of Pharmacist at the above general hospital.
Excellent opportunities to obtain wide experi-

Excellent opportunities to obtain wide experience in hospital pharmacy, Whitley Council scale and conditions. Salary £580–£785 per annum, plus £25 per annum higher qualification allowance.

Applications with names of two referees to the Group Secretary, Royal Infirmary, Preston. Preston. C 8854

#### STEPNEY GROUP HOSPITAL MANAGEMENT COMMITTEE, LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1

Pharmacist
required at the above hospital from January 26, 1959. Whitley Council salary scale and conditions of service. Applications stating age, experience and the names of two referees, to be sent to the Group Secretary, Mile End Hospital, Bancroft Road, E.1. C 8764

#### SEAMEN'S HOSPITALS MANAGEMENT COMMITTEE

MANAGEMENT COMMITTEE
Pharmacist
required on March 20, 1959, for duties under
Chief Pharmacist at the Dreadnought Seamen's
Hospital, Greenwich, Salary and conditions of
service in accordance with Whitley Council
regulations, It may be possible to provide accommodation, Applications, stating age, qualifications and experience, together with the names
and addresses of two referees, to be sent to
the Group Seerctary, Dreadnought Seamen's
Hospital, Greenwich, S.E.10. C 8859

#### ST. MATTHEW'S HOSPITAL, BURNTWOOD, LICHFIELD, STAFFS (1,330 Psychiatric Beds)

Chief Pharmacist (Category II)
Applications are invited from suitably qualified persons for the above post, Salary £755-£1,030 per annum, according to previous experience and service

and service, Applications, giving full particulars and names of two referees, should be sent to the Group Secretary, The General Hospital, Burton-on-Trent, as soon as possible. C 8815

#### ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1

Pharmacist

A vacancy will occur at the end of January for a Pharmacist, Salary according to Whitley Council scales, Write, giving names of two referees, to the Chief Pharmacist, C 8858

#### SELLY OAK HOSPITAL, BIRMINGHAM, 29

Deputy Chief Pharmacist and Pharmacist required as soon as possible. Duties of Deputy include supervision of Department and sterile production. Salary scales: Deputy Chief Pharmacist: £725-£990; Pharmacist £580-£785. (Both subject to recent increase.) State particulars naming two referees in application to lars, naming two referees, in application Administrator. C 8

## ST. HELIER HOSPITAL,

CARSHALTON, SURREY
(Category V — 733 beds)

Assistant-in-Dispensing
required for general dispensing duties in busy department. Experience of sterilising techniques an advantage. Canteen facilities available. London Weighting payable.

Applications with names of two referees to

Applications, with names of two referees, to the Secretary. C 8778

#### WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX

Pharmacist

Pharmacist
for Main Pharmaceutical Department, Salary £580—£785 per annum, plus London Weighting, Whitley conditions and assimilation point in salary scale according to experience.
Apply giving age, qualifications and experience, with names of referees to the Chief Pharmacist. Pharmaeist.

#### ST. OLAVE'S HOSPITAL, LOWER ROAD, ROTHERHITHE, S.E.16

Senior Pharmaeist
Applications are invited for this appointment at the above Hospital. Salary £650/£830 per annum plus London Weighting, Applications for this position stating age, qualifications and experience and giving the names of two referees to the Hospital Secretary.

C 8816

#### WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX Assistant-in-Dispensing

Assistant-in-Dispensing required in Pharmaceutical Department for varied duties. Salary £395 per annum at age 22, rising to £520 (additional payment of £20 per annum for suitable qualification).

Apply, giving names of two referees, to the Chief Pharmaeist. C 431

#### YORK (A) AND TADCASTER HOSPITAL MANAGEMENT

HOSPITAL MANAGEMENT

COMMITTEE

Chief Pharmaeist (Category IV)
required for the City Hospital, York, The pharmacy department of this hospital also serves a number of subsidiary hospitals and out-units. Conditions of service are in accordance with the Pharmaceutical Whitley Council and the salary scale is £880 x £30 (3) x £45 (1) x £40 (2) x £45 (1) x £40 (2) to £1,220 p.a.
Applications stating age, qualifications, experience and names of two referees to Group Secretary, Bootham Park, York, by January 30, 1959.

C 8840

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C C 404

#### Appointments—Overseas

# ST. THOMAS-ELGIN

GENERAL HOSPITAL,
ONTARIO, CANADA
Male or Female Pharmacist
required for dispensary of General Hospital,
285 beds, 61 bassinettes. Commencing salary
£109 per month. Work as assistant Pharmacist,
Apply, Mrs. E. Esson, Canadian Department
of Labour, 61 Green Street, London, W.1.
C 8782

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#### CITY AND COUNTY OF BRISTOL EDUCATION COMMITTEE, THE COLLEGE OF TECHNOLOGY

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(Selected for development into a College of Advanced Technology)

The Governors invite applications for following full-time posts in School of Pharmacy:—

Senior Lecturer or Lecturer in Pharmaceutics

Applicants should be graduates in Pharmacy with adequate experience in teaching, research, hospital or industry. Appointment at Schior Lecturer or Lecturer Grade according to qualifications and experience.

Successful candidate expected to show active interest in expansion which College is now undergoing and in research, Duties to commence as soon as possible.

Salaries: Burnham Technical Scale, From January 1, 1959, 5 per cent, should be added to quoted figures:—

Sentor Lecturer

Men: £1,350 x £50 to £1,550.

Women: £1,080 x £40 to £1,240 plus equal pay increments.

Lecturer

Lecturer

Lecturer
Men: £1,200 x £30 to £1,350.
Women: £960 x £24 to £1,080 plus equal pay increments.
Assistant Lecturer (Grade B) in Pharmaceutical Subjects

Candidates should possess degree in Pharmacy or a pharmaceutical qualification. Teaching, research or industrial experience an advantage but not essential; applications invited from successful entrants to linal examinations now undergoing post-graduate training. Successful candidate expected to commence duty on September 1, 1959.

Salary: Men: £650 x £25 to £1,025.

Women: £580 x £20 to £820 plus equal pay increments.

The scale, to which 5 per cent, should be added as above, allows additions for Degree and training and, where applicable, increments for approved industrial experience.

Details and application forms from Registrar, College of Technology, Bristol, 7. C 8849

College of Technology, Bristol, 7. C 8849

SUNDERLAND EDUCATION

AUTHORITY,

TECHNICAL COLLEGE

Applications are invited for the following Posts in the Pharmacy Department:—

1. Lecturer in Pharmaceutical Chemistry

3. Senior Lecturer to direct Research

The successful candidates will be required to commence duties as soon as possible, Candidates for the hirst two posts should be graduates in Pharmaceutical Society and a Science Degree in the subject they are to teach. The successful candidate will be required to tach up to the standard required for the Bachelor of Pharmacy Degree of the University of London. Candidates for the Research Post must possess a Post-graduate qualification and have had research experience in Pharmaceutical or allied subjects. The successful candidate will be required to undertake a limited amount of Pregraduate teacning in addition to directing research students, Salary will be in accordance with the Burnham (Technical) Scale:—

Senior Lecturer

Men . £1,350 x £30—£1,550 per annum

Men Lecturer

Men .. £1,350 x £30—£1,550 per annum

Women .. £1,080 x £40—£1,240 per annum

plus equal pay increments.

Lecturers

Men ...£1,200 x £30—£1,350 per annum Women ...£960 x £24—£1,080 per annum plus equal pay increments.

All scales are increased by 5 per cent, from January 1, 1959.

Further particular

Further particulars and Forms of Application may be obtained from the Registrar, The Technical College, Sunderland, eo. Durham, and applications should reach the undersigned within fourteen days of the appearance of this advertionment.

Canvassing will disqualify.

Education Offices, W. THOMPSON,
15 John Street, Director of Education.

Sunderland, co. Durham. C 8848

#### SITUATIONS VACANT **RETAIL HOME**

CHEMIST COUNTER ASSISTANT, E.C.I, lady, experienced drug and cosmetic counters; modern pharmacy. Salary to £8, scope for promotion. Kendale Chemists, 51 Exmouth Market, London, E.C.1. TERminus 9494.

C 8836

CHEMIST/OPTICIAN required as manager for branch in Sunderland. Commencing salary £24 weekly and bonus. Every encouragement for advancement. David Blackstone, Ltd., 36-38 Commercial Street, Leeds, 1. C 8825 for advancement. David Blackstone, Ltd., 36-38 Commercial Street, Leeds, 1. C 8825 DISPENSING ASSISTANT, male or female, required for busy middle-class business. Please give all details of age, previous experience, and salary required to Arnold M. Gee, Ltd., 152 Plumstead Common Road, S.E.18, C 1982 EAST MIDLANDS. Pharmaeist required to manage our busy branch at March, Large modern shop with full supporting staff, Present inclusive salary £1,200. Modern house with garage available at a reasonable rent, This is a permanent, progressive post and is superannuated. Apply Peterborough Co-operative Chemists, Ltd., Park Road, Peterborough.

PHARMACIST/MANAGER required for branch in Sunderland, Commencing salary £20 weekly and bonus, Every encouragement for advance-ment. David Blackstone, Ltd., 36-38 Commer-cial Street, Leeds, 1. C 8826

and bonus, Every encouragement for advancement. David Blackstone, Ltd., 36-38 Commercial Street, Leeds, 1. C 8826
S.W. Assistant wanted for good-class pharmacy.
Good reterences essential, Box C 1990,
WALTHAMSTOW. Assistant pharmacist required, either sex, to manage d.spensary for
proprietor of famly bus.ness. Mainly N.H.S.
dispensing. Half-day Thursday, no rota or
Sunday duties. This well paid post in congenial atmosphere offers scope for managerial
experience and excellent prospects for suitable
applicant, Worby's Pharmacy, 325 Ch.ngford
Road, E.17. C 1988
WINDOW DRESSER required for group of
pharmacies in South London area. Applicants
should have a flair for display and must have
highest references as to integrity. Please give
all details of age, previous experience and
salary required to Arnold M. Gee, Ltd., 12
High Street, Colliers Wood, S.W.19. C 1983

#### WHOLESALE

A NEW JOB IN THE SPRING? Interviews will shortly be arranged by an established manufacturer for a Midlands Area Representative, selling nationally advert.sed lines to chemists. A sound wholesale and retail chemist connection is desirable. This is a well-paid position offering an assured future to a hard-working salesman of integrity, capable of working on his own initiative. A company car is supplied and a contributory pension scheme available. Reply stating age, and details of your career to date, including salary earned to: Sales Manager, Dendron Distributors, Ltd., 94 Rickmansworth Road, Watford, Herts.

C 8824

#### BURROUGHS WELLCOME & CO. MANAGER OF PLANNING AND PROGRESS DEPARTMENT

vacancy exists for a man to take charge of the Planning and Progress Department of the Wellcome Chemical Works, Dartford. The work involves partment of the Wellcome Chemical Works, Dartford. The work involves the long- and short-term planning of the production of the factory which produces a wide range of products, and the co-ordination of the requirements of the production and sales units. The successful candidate will be expected to work as a member of a team and contribute in the development of his department, Drive, personality and organising ability are essential. Preference will be given to candidates with experience and proven ability in the type of work involved. The post is considered to be an important one and the salary will be commensurate, Contributory pension scheme. Excellent conditions of employment. Applications, giving age and full details of education and experience, including salaries earned, should be addressed, in confidence, to the Personnel Manager, Burroughs Wellcome & Co., The Wellcome Foundation, Limited, Wellcome Chemical Works, Dartford, Kent. AN AMBITIOUS YOUNG MAN (22-25) required by manufacturing company to conduct sales negotiations involving moulded plastic containers. This is an extremely interesting post which offers a good salary and applicants should write in the first instance giving full details to Box C 1981.

#### BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION, LIMITED)

require a

#### PUBLICITY MANAGER

He will be responsible for the management of the Publicity Department which is part of the Sales Unit. This department prepares and produces, in conjunction with advertising agents, publicity material of all types for the company's medical, veter.nary and consumer business at home and overseas. He must be a capable organiser and able to make full use of the speciains services provided within and outside the company. In this connection experience in advertising administration is important.

is important.

The company, which is a world-wide organisation, is known for the high standards it sets for all its activities. Conditions of employment are good and there is an excellent contributory pension fund.

A pulicants (aged, 30.45) chould in the

Applicants (aged 30-45) should in the first instance supply details of their experience to:

The Personnel Director, The Wellcome Foundation, Ltd., The Wellcome Building, Euston Road, London, N.W.1. C 8828

A COMPANY specialising in industrial drying equipment used in the chemical, pharmaceutical, plasties and other industries, require a man of outstanding ability and personality to lill an important position in the organisation. Selling and administrative experience, preferably in the above-mentioned field, would be an advantage, and a recognised qualification in chemistry or chemical engineering is desirable. It is envisaged that the successful applicant would probably spend six to twelve months in England, then take up residence in Canada, to be entirely responsible for furthering the companys interests in Canada and United States of America, Picase write, giving full details of age, qualifications, experience and initial salary expected. Box C 8847.

EXPERIENCED REPRESENTATIVE required for wholesale warehouse, to carry fashion jewellery as sideline, Good commission, Box

ORDER CLERKS. The British Drug Houses, Ltd., require clerks with a sound knowledge of ethical and proprietary medicines for Tciepnone Order and Pricing work. Applicants should have experience in the wholesale distribution trade. Five-day week, canteen. Superannuation fund and profit-sharing scheme. Apply in writing stating age, experience and salary required to the Staff Manager, Graham Street, City Road, N.1.

C 8820

#### PARKE, DAVIS & COMPANY, LIMITED

A vacancy occurs in the Medical Service Department for a pharmacist, about 25-30 years of age, with a literary bent and a working knowledge of one or more Continental languages. Duties will include the handling of a wide range of technical queries, particularly from overseas territories, and the compilation and revision of literature on the Company's products. He will later assist with the training of representatives.

5-day week, Pension Plan.

Staff Restaurant.

Write in the first instance for an application form to: The Personnel Manager, Parke, Davis & Company, Limited, Staines Road, Hounslow, Middlesex. C 8789

#### **HOSPITAL SALES** REPRESENTATIVE

Applications are invited from Pharmacists for the post of representative calling exclusively on Hospitals in Lancashire and West Riding. Car and expense allowance provided. Pension and Life Assurance Scheme in operation.

Apply in confidence giving full details to Home Sales Director, Evans Medical Supplies, Ltd., Speke, Liverpool 24.

C 8822

#### BERDOE & FISH

Chemists' Transfer Agents and Valuers 41 ARGYLE SQUARE, KING'S CROSS, W.C.I (opposite St. Pancras and King's Cross Stations)

Wanted immediately good class businesses in London, Home Counties and South Coast. Private clients waiting with cash up to £10,000.

 All Valuations and Stocktakings, carried out under personal supervision of principals.

Established 1870

#### Phone: TERminus 3574

#### Situations Vacant—Continued

INTERESTING SIDE LINE offered, on commission basis only, to representatives calling on retail chemists and stores. Our own staff have been advised of this offer. Apply to Box C 1985.

PROVINCIAL REPRESENTATIVES required with established connection amongst chemists and stores for the Midland Counties and West of England by cosmetic firm with nationally advertised lines, Apply Box C 1938.

#### PARKE, DAVIS & COMPANY, LIMITED

Applications invited from PHARMA-CISTS for a junior executive position in their Pharmaceutical Manufacturing Division. The position entails supervision of groups of process workers and offers an opportunity to gain wide experience in modern, large-scale production methods. Good promotion prospects, previous manufacturing experience, while an advantage, is not essential.

Five-day week, Staff Restaurant,
Generous Pension Plan.

Write with full particulars to: Personnel Manager, Staines Road, Hounslow, Middlesex.

C 8830

#### PHARMACISTS

Bob Martin, Ltd., of Southport, invite applications from suitably qualified pharmacists for appointments in the research and control laboratories. Duties will include formulation of new products, development of analytical methods, and close liaison with production departments, These are progressive appointments, particularly to candidates up to 30 years of age who have had some previous experience. A five-day week is in operation and staff facilities are excellent, Please write in the first instance giving fullest details to Chief Chemist, Bob Martin, Ltd., Southport, Lancs.

C 8850

RECENT DEVELOPMENTS have created the need for additional staff, who have had experience in the Pharmaceutical industry, with particular emphasis on veterinary products. Experience in the manufacture of Aerosol products would be an advantage. This departmental position will require, besides actual manufacture, some supervisory duties and offers good scope to an able man. Applicants should send details of their previous experience, present salary to Secretary, Walter Gregory & Co., Ltd., Wellington, Somerset.

REPRESENTATIVES required already on wholesale and retail chemists to sell corks on a commission basis only. Districts: Scotland, Northumberland, Durham and Yorkshire, Full particulars to Box C 8837.

RETIRED Pharmaceutical Chemist required by old-established London Manufacturing Com-pany to assist qualified staff in manufacture two or three Fridays per month, Remunera-tion to be arranged at interview. Apply Box

#### SCHOLL

Representative for the West of England territory to call upon chemists, chiropodists and shoe dealers. Opportunity to join sales force of Scholl Foot Comfort Service promoting the world-famous Aids to Foot Comfort and Elastie Hosiery, Pension Scheme and car provided, Please state age and give brief account of career to date. Personnel Manager, The Scholl Mfg. Co., Ltd., 182-204 St. John Street, E.C.I.

SMALL, but progressive company wishing to expand both its Home and Export trade wishes to appoint a working director. The necessary qualifications are hard work, preferably having called upon doctors and hospitals, and investment of approximately £1,500. Write Box C 8857.

TECHNICIANS required with experience, to be trained as foremen for vacancies in the sterile department and the packing department, in a small modern pharmaceutical manufacturing company, Five-day week, canteen facilities and Superannuation Scheme, Apply to Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10.

C 8851

#### S. MAW, SON & SONS, LTD.,

a leading "Chemists Only" house established over 150 years have vacancies for trainee sales representatives.

These are opportunities for single men aged between 22 and 28 years, of good education, appearance and address to be trained for a career in selling to pharmacists.

Essentials are:-

- 1. A willingness to reside in any part of the United Kingdom after training.
- 2. A current driving licence.

Please apply in own handwriting giving full details of education and career to date to:

Home Sales Manager,

S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts C 8810

PHARMACIST FOR ONTARIO, CANADA

Retail. Assistant store manager. Opportunity for advancement. Salary £1,380 per annum. Would consider repayable loan to help with air passage, if available at once. Must hold M.P.S. qualification of Great Britain or Northern Ireland. Apply:—

MR. S. Y. MARR,

Standard Drug Limited, London, Ontario, Canada

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For quick and easy reference use the C & D' POISONS GUIDE, Vol. I

THE CHEMIST AND DRUGGIST 28 ESSEX STREET, STRAND, LONDON, W.C.2

TRAINEES. The Scholl Foot Comfort Service requires young men and women between the ages of 24/30 as Trainees. Applicants should have a good basic education and must be mobile for the first 12 months, The work is interesting and offers good scope, A pension scheme is in operation. Applications giving details of age, education and career to date should be sent to: Personnel Manager, Scholl Foot Comfort Service, 182 St. John Street, London, E.C.1. C 8835

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require pharmacists as assistant production chemists for their Long Melford, Suffolk factory. The positions are suitable for recently qualified men though preference will be given to applicants with production experience. The wide range of pharmaceutical and chemical products manufactured offers considerable scope, and the positions will be progressive for the right men. Five-day week, Contributory superannuation scheme, Applications giving full details of qualifications, experience, and age, of qualifications, experience, and age, etc., should be addressed to Doctor Wm. Mitchell, Stafford Allen & Sons, Ltd., Wharf Road, London, N.1.

#### VETERINARY REPRESENTATIVE

Required by manufacturing and whole-sale chemists to call on the qualified veterinary profession in Southern Eng-land and the West Country, This is a very well established territory with good prospects of further development. Car and expenses provided with good salary and bonus, Previous experience of representation is very desirable, Apply to Box C 8785. Required by manufacturing and whole to Box C 8785.

#### AGENTS WANTED

AGENTS WANTED to sell "Brekna" Iodised Salts for rheumatism, to call on chemists all over Great Britain, Application and details to Mr. H. P. Jenkins, The Laurels, Uplands, Penygroes, Nr. Llanelly, Carms.

# SANDOZ PRODUCTS LIMITED

require additional

#### FIRST-CLASS MEDICAL REPRESENTATIVES

A policy of expansion has resulted in the recent promotion of several of our Medical Representatives, and vacancies now exist in various parts of the United Kingdom.

These appointments offer secure, interesting and rewarding careers to men with enthusiasm and integrity. Salary and commission depend initially on age, qualifications and previous experience but are designed subsequently to recognise individual merit, initiative and achievement. Pension Fund, Accident Insurance, and Car Purchase schemes are in operation, and full expenses paid.

Candidates should preferably possess a pharmaceutical or equivalent qualification but applicants with a suitable technical background will be considered. The upper age limit is 40 years.

This is an opportunity to join a stable team of representatives and to become a member of a Company which markets products deriving from its own original research.

All enquiries will be regarded as confidential. Application form upon request to:-

THE MANAGEMENT,
SANDOZ PRODUCTS LIMITED,
SANDOZ HOUSE, 23 GREAT CASTLE STREET,
LONDON, W.1.

C 8838

## OVERSEAS REPRESENTATIVES RIKER

Riker Laboratories Limited have vacant two interesting and challenging positions in its Export Sales Division. Representatives are required for:—

- (1) The West Indies (based on Jamaica)
- (2) South-east Asia (based on Singapore)

These appointments are the first of their kind the Company is making and prospects are unusually attractive. Applications are primarily invited from single men over 28 but consideration will be given to married men up to the age of 40. The initial contract will be for three years. Remuneration will be by salary, bonus and allowances and will be on a generous scale. As the posts in question will involve a fair amount of local travel this should be borne in mind when applying.

Initiative and drive are essential attributes and ideally, applicants should have a pharmaceutical qualification. Applications will, however, be considered from suitably qualified medical auxiliaries and other persons with a good pharmaceutical background. Some previous experience of medical representation in this country would also be helpful.

Applications in writing, should be addressed in the first instance, to the Personnel Manager, Riker Laboratories Limited, Loughborough, Leics. C 8797

#### **BOEHRINGER DIVISION OF**

PFIZER LTD.

#### **MEDICAL REPRESENTATIVES**

As a result of rapid growth the newly formed BOEHRINGER PRODUCTS DIVISION of Pfizer Ltd. is expanding its force of medical representatives and applications are invited from men who should have the following requisites:—

A pharmaceutical qualification or extensive pharmaceutical background; aged between 25 and 35 years; a pleasant personality; a high integrity; ability to sell; good health. Those men who measure up to these standards can expect to be interviewed for appointments which are progressive and interesting, where industry and intelligent application of knowledge can lead to high reward.

Applications, giving full details of age, education and career to date and expressing preference for territory should be sent, quoting MNG 6734, to the:—

Personnel Officer,

#### PFIZER LTD

137/139 Sandgate Road, Folkestone, Kent

C 8729

#### Agents Wanted—Continued

AGENTS with good connections and knowing the high-class cosmetic trade are invited to carry a new beauty preparation of quality. Territories now open: Southern Counties, South-west Midlands and Scotland. Applications should be in writing only, when the strictest confidence will be observed, and addressed to Sales Director, Placenta Oil, 43 Knightsbridge, London, S.W.I. C 8834

#### SITUATIONS WANTED **RETAIL HOME**

DENVER WILLIAMSON, International locum, Kineton, Warwickshire. Replaces Proprietors/Managers worldwide, Experience home, France, Italy, South America, Africa. C 1987 EXPERIENCED PHARMACY MANAGER reeafterienced Pharmacy Manager requires permanent, progressive post where ability, drive and business sense is rewarded with generous salary, suitable living accommodation and pension scheme. Available February, Please apply to Mr. Levinson, B.Pharm., F.P.S., 778 Newport Road, Cardiff. C 1977

#### WHOLESALE

DOCTOR experienced business, administration, public relations (technical literature, advertise-ment copy, films, etc.), seeks post with pro-gressive organisation. Part-time, free-lance con-sidered. Box C 1974. SUPERVISOR of manufacturing and packing seeks a change, Middlesex preferred but not essential. Box C 1989.

#### **AGENCIES WANTED**

AGENT with first-class and long-established connection among wholesale and retail chemists, stores, etc., in Lancashire and Cheshire requires further agency on commission. Any line considered which offers good reward for energy and resourcefulness. Car. Phone Box C 1975.

C 1975.

IRISH REPUBLIC. Twenty years established firm of agents, holding several principal pharmaceutical agencies, seek additional agencies for top-grade advertised products only. Over 1,000 live chemist accounts open and regular 8/10 weeks contact. Service offered includes selling, distributing, packaging and manufacturing. Unapproachable sales record. Full particulars by return and marketing advice, on any new product or other information willingly, Box C 1973.

WELL CONNECTED, EXPERIENCED RE-PRESENTATIVE, pulling on a first principal product of the p

WELL CONNECTED, EAFERTENCED RE-PRESENTATIVE, calling on a high-class chemists and store trade for well known perfumery house in South-western Counties, seeks addi-tional line; cosmetic house or similar preferred. Box C 1978.

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Your own Buyers on the spot all the year round, dealing directly with suppliers for you; receiving, packing, and shipping at actual cost plus small com-

All this is yours for the asking. We will buy from sellers you designate, or find others you do not know, in any event our purpose is to do for you just what you would do if you could be here all the time, Box C 1980.

#### WANTED

BOTTLE WASHING MACHINE for chemist's packing department. Small type Dawsons or similar. State price and location. Box C 1986.

BUYER specialises in disposing or job lots of any lines appertaining to pharmacy. Any quantity considered, Prompt cash settlement, Willing to discuss adaptation of any line which is not quite suitable in its present state, Please send samples and full details to: N. Morris, 218 Walworth Road, S.E.17, Tel. No.: ROD, 7261. BUYER specialises in disposing of job lots of

Largest cash buyers of photographic equipment of every description, outdated film and paper, etc.

SPEARS
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Phone: Black/riars 1916.
Bankers: Midland Bank, Ltd. C

C 427

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large, Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

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FIVE SETS ONLY recess labelled shop rounds to clear below cost. New, unused bottles in sets of five titles, Each set consists of twelve 5-oz., fourteen 10-oz., eighteen 20-oz., and twelve 40-oz. bottles, Price £15 a set. Details on request, Write Box C 8804.

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#### ONE VACUUM SHELF DRYER,

as new, 125 sq. ft. total tray area, complete with oil-heating equipment. Box C 8821.

#### SALES BY AUCTION

B. NORMAN & SON, 2/5 Little Britain (close to G.P.O.), London, E.C.I,

will sell by Auction on Wednesday, February 4, at 1.30 p.m., excellent light oak SHOP EQUIPMENT including two 10 ft. drug runs, plate glass counters and showcases, nests of wall shelving. National Cash Registers, Office Furniture, Steel cupboards and filing cabinets, safe, typcwriters, View day prior and morning of sale. Catalogues available (postage 3d.). C 8843

#### **TENDERS**

#### STOKE-ON-TRENT HOSPITAL MANAGEMENT COMMITTEE

MANAGEMENT COMMITTEE

Contracts for Drugs, Tablets, Capsules, Injection Solutions, Glucose, etc.
Tenders are invited for the supply of Drugs, etc., to the Hospitals within this Group for the period April 1, 1959, to March 31, 1960. Tender forms obtainable on application to:

The Group Supplies Officer, Stoke-on-Trent H.M.C., City General Hospital, Stoke-on-Trent, to be returned not later than February 14, 1959.

THORNBURROW GIBSON, Group Secretary.

C 8853

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IMMEDIATE ADVANCES £50 to £20,000 WITHOUT SECURITY

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JODEZ (MANCHESTER), LTD., 8/10 Shudehill, Manchester, 4, offer assortment. Clearance lines at very reduced prices, ear-rings, from 6d, upwards; necklaces, brooches from 1s. upwards, Also best quality imported goods greatly reduced. Parcels from £5 upwards. C 8845

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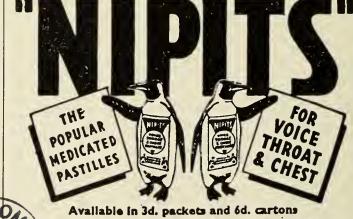
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Each Sponge in a 3-coloured transparent sleeve—Each dozen in 4-coloured show carton—12 dozens in Cardboard Box.

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FOR YOU TO TAKE ADVANTAGE OF THIS EXCEPTIONAL NEW YEAR BONGS OFFER

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12 doz. bottles of 25

#### BONUS

24 bottles of 25 (i.e. 2 free bottles in each dozen)

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BONUS



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4 doz. bottles of 25 2 doz. bottles of 100

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8 bottles of 25, 4 bottles of 100 (i.e. 2 free bottles in each dozen)

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6 bottles of 100 (i.e. 2 free bottles in each dozen)

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JANUARY 24 1959

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